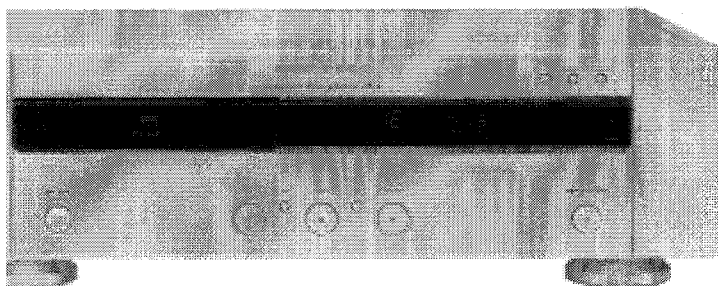


Service Manual

Compact disc player



COMPACT
disc
DIGITAL AUDIO

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Please use this service manual with referring to the user guide (D.F.U.) without fail.
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

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model CD-7

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Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

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MARANTZ AMERICA, INC.
440 MEDINAH ROAD
ROSELLE, ILLINOIS 60172
USA
PHONE : 630 - 307 - 3100
FAX : 630 - 307 - 2687

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PICKERING, ONTARIO L1W 3K1
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FAX : 905 - 831 - 6936

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MARANTZ PROFESSIONAL PRODUCTS
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540 FIRING AVE.
BAIE D'URFÉ, QUEBEC H9X 3T2
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THAILAND

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WANGBURAPIROM, PHRANAKORN,
BANGKOK, 10200 THAILAND
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23, LORONG 8, TOA PAYOH,
SINGAPORE 319257.
PHONE : +65 2583640
FAX : +65 3564047

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 1492.

In case of difficulties, do not hesitate to contact the Technical
Department at above mentioned address.

1. TECHNICAL SPECIFICATIONS

Audio Characteristics

Channels	2 channels
Sampling frequency (CD mode)	44.1 kHz
Sampling frequency (D/A mode)	32/44.1/48 kHz
Quantization	16-bit linear/channel
Error correction ...	Cross-interleave read solomon code (CIRC)
D/A conversion	1-bit linear/channel
Wow & flutter	Precision of quartz

Optical Readout System

Laser	AlGaAs semiconductor
Wavelength	780 nm

Frequency Characteristics

Frequency range	2 Hz - 20 kHz
Dynamic range	> 98 dB
S/N ratio	> 102 dB
Channel separation (1 kHz)	> 100 dB
THD (1 kHz)	0.002 %
Analog output	
Output level (cinch JACKS)	2.2 V RMS
Output impedance	250 ohms
Digital output	
Output level (cinch JACK)	0.5 Vp-p/75 ohms
Output level (optical JACK)	-19 dBm
Digital input	
Input level (cinch JACK)	0.5 Vp-p/75 ohms
Input level (optical JACK)	-19 dBm

Power Supply

Power requirement	
K version	110 / 220V AC 50/60 Hz
/02 version	230V AC 50 Hz
Power Consumption	19 W

Cabinet, etc.

Dimensions	
Width	454 mm
Height	139 mm
Depth	344 mm
Netweight	16.6 kg
Operating temperatures	+5 °C ~ +35 °C
Operating humidity	5 % ~ 90 % (without dew)

Accessories

Remote control unit (RC-7CD)	1
AAA (R03) Batteries	2
Stereo audio cable with cinch pins	1
AC power cord	1

Improvement may result in changes in specifications and design without notice.

オーディオ特性

チャンネル	2チャンネル
周波数特性	2Hz~20,000Hz, +0 -1.2dB
ダイナミックレンジ	98dB以上
S/N比	102dB
チャンネルセパレーション	100dB (1kHz)
高調波歪率	0.002% (1kHz)
ワウフラッター	水晶精度
誤り訂正方式	クロス・インターリーブ・リードソロモン・コード (CIRC)

音声出力

アンバランス	2.2V RMSステレオ
バランス	3.8V RMSステレオ

デジタル出力

ピンジャック	0.5Vp-p/75Ω
光出力(角型光コネクタ)	-19dBm

デジタル入力

ピンジャック	0.5Vp-p/75Ω
光出力(角型光コネクタ)	-19dBm

光学読み取り方式

レーザー	AlGaAs 半導体
波長	780nm

信号方式

サンプリング周波数(CD モード)	44.1kHz
(D/A モード)	32/44.1/48kHz
量子化	16ビットリニア / チャンネル

電源部

電源	AC 100V 50/60Hz
消費電力(電気用品取締法)	25W

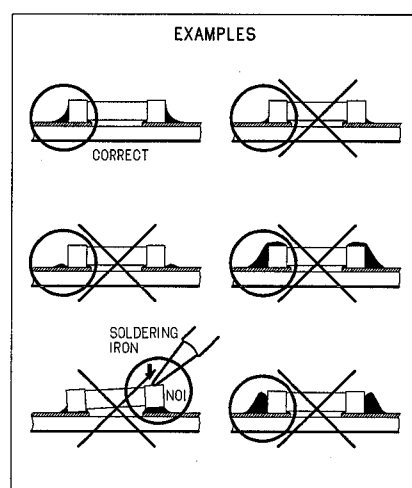
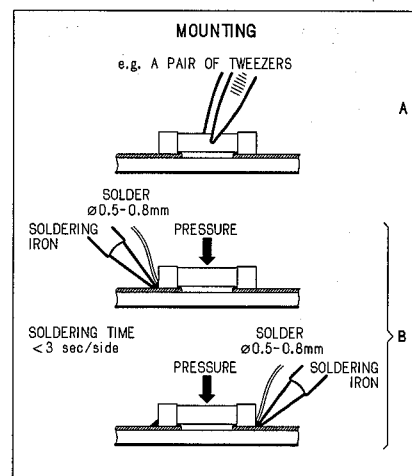
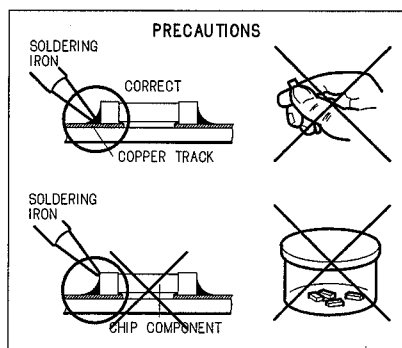
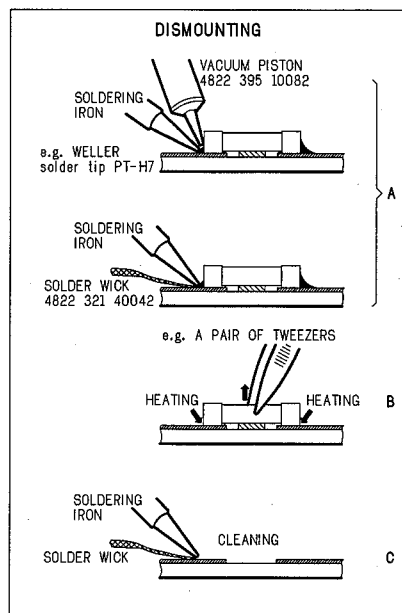
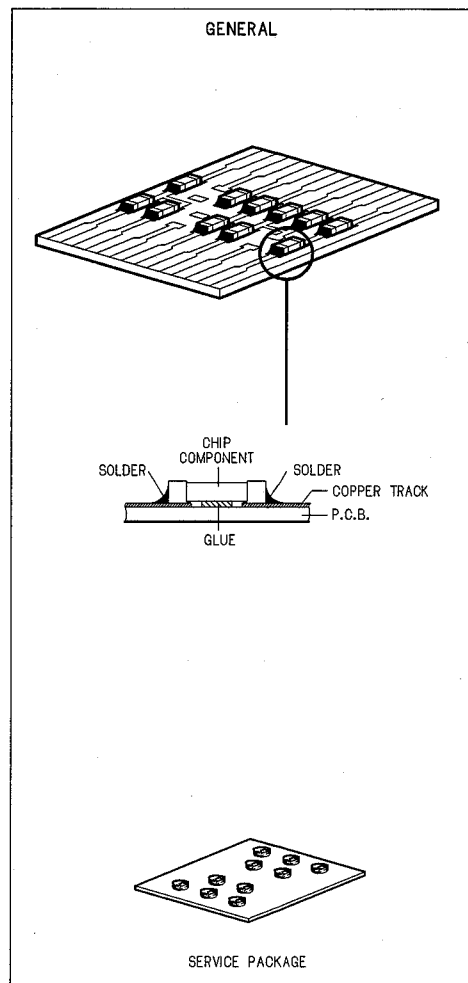
キャビネット・その他

最大外形寸法(幅×高さ×奥行き)	454×139×344mm
質量	16.6kg
許容動作温度	+5°C ~ +35°C
許容動作湿度	5%~90% (結露のないこと)

付属品

リモートコントロール送信機(RC-7CD)	1
外形寸法(幅×高さ×奥行き)	44×17.5×239mm
質量(電池なし)	175g
単四電池(SUM-4)	2個
RCAピンコード	1組
電源コード	1本

2. SERVICING HINTS



3. SERVICE TOOLS

Audio signals disc	4822 397 30184
Disc without errors (SBC444)+	
Disc with DO errors, black spots and fingerprints (SBC444A)	4822 397 30245
Disc (65 min 1kHz) without no pause	4822 397 30155
Max. diameter disc (58.0 mm)	4822 397 60141
Torx screwdrivers	
Set (straight)	4822 395 50145
Set (square)	4822 395 50132
13th order filter	4822 395 30204
Allen wrench (No. 3)	

4. SERVICE MODE

1. How to enter into the Service Mode

Turn the power on while pressing [PLAY]+[OPEN/CLOSE] buttons together.

2. Mode 0 (display "P 00")

Condition: [FOCUS OFF], [SPINDLE OFF], [RADIAL OFF], [MUTE ON]

- While pressing [▶▶] (Remote Control unit only) button, the sledge moves outside.

And, release from this button. The sledge return to neutral position.

- Press [NEXT ▶▶] button, the function will change to "Mode 1".

3. Mode 1 (display "P 01")

Condition: [FOCUS ON], [SPINDLE OFF], [RADIAL OFF], [MUTE ON]

- Press [NEXT ▶▶] button, the function will change to "Mode 2".

- Press [PREV ◀◀] button, the function will change to "Mode 0".

4. Mode 2 (display "P 02")

Condition: [FOCUS ON], [SPINDLE ON], [RADIAL OFF], [MUTE ON]

- Press [NEXT ▶▶] button, the function will change to "Mode 3".

- Press [PREV ◀◀] button, the function will change to "Mode 1".

5. Mode 3 (display "P 03")

Condition: [FOCUS ON], [SPINDLE ON], [RADIAL ON], [MUTE OFF]

- Press [PREV ◀◀] button, the function will change to "Mode 2".

- ★ The following button operations are available at the Service Mode.

1) While pressing [STOP] button, FL display shows all segments.

2) The same as Normal operation is performed by pressing [PLAY] button.

However if some default is detected, display shows an error code. (For example: "Err 10") Refer to the "Table 1 ERROR CODE".

6. Canceling the Service Mode

The Service Mode is canceled by turning the power off.

4. サービスモード

1. サービスモードへの入り方

[PLAY]と[OPEN/CLOSE] ボタンを押しながら電源を入れます。

2. モード0 (表示 P 00)

状態: [FOCUS OFF] [SPINDLE OFF] [RADIAL OFF] [MUTE ON]

- リモコンの[▶▶] ボタンを押している間だけスレッドが外周へ移動します。ボタンを放すと原点に戻ります。

- [NEXT ▶▶] ボタンを押すとモード1へ移行します。

3. モード1 (表示 P 01)

状態: [FOCUS ON] [SPINDLE OFF] [RADIAL OFF] [MUTE ON]

- [NEXT ▶▶] ボタンを押すとモード2へ移行します。

- [PREV ◀◀] ボタンを押すとモード0へ移行します。

4. モード2 (表示 P 02)

状態: [FOCUS ON] [SPINDLE ON] [RADIAL OFF] [MUTE ON]

- [NEXT ▶▶] ボタンを押すとモード3へ移行します。

- [PREV ◀◀] ボタンを押すとモード1へ移行します。

5. モード3 (表示 P 03)

状態: [FOCUS ON] [SPINDLE ON] [RADIAL ON] [MUTE OFF]

- [PREV ◀◀] ボタンを押すとモード2へ移行します。

- * サービスモードの全ての状態で以下のボタンが有効です。

1) [STOP] ボタンを押している間だけFLが全点灯します。

2) [PLAY] ボタンを押すと通常と同じ動作となります。ただし、動作中、異常が確認された時にエラー番号が表示されます。(例: Err 10)

下記の表を参考にしてください。

6. サービスモードの解除

電源を切るとサービスモードが解除されます。

Table 1 ERROR CODE

Error Code	Error
Err 02	FOCUS Error
Err 07	SUB CODE Error
Err 08	T. O. C. Error
Err 09	DECODER Error
Err 10	RADIAL Error
Err 11, 12	SLEDGE Error
Err 13	SPINDLE Error
Err 16 ~ 20	SEARCH Error
Err 30	DOOR Error
Err 31	TRAY Error
Err 32 ~ 47	BUTTON INPUT Error

5. MICROPROCESSOR AND IC DATA

Q102 : SAA7372GP

PIN	SYMBOL	DESCRIPTION
1	VSSA1	*analog ground 1
2	VDDA1	* analog supply voltage 1
3	D1	unipolar current input (central diode signal input)
4	D2	unipolar current input (central diode signal input)
5	D3	unipolar current input (central diode signal input)
6	VRL	reference voltage input for ADC
7	D4	unipolar current input (central diode signal input)
8	R1	unipolar current input (satellite diode signal input)
9	R2	unipolar current input (satellite diode signal input)
10	IrefT	current reference output for ADC calibration
11	VRH	reference voltage output from ADC
12	VSSA2	* analog ground 2
13	SELPLL	selects whether internal clock multiplier PLL is used
14	ISLICE	current feedback output from data slicer
15	HFIN	comparator signal input
16	VSSA3	* analog ground 3
17	HFREF	comparator common mode input
18	Iref	reference current output pin (nominally 0.5VDD)
19	VDDA2	* analog supply voltage 2
20	TEST1	test control input 1; this pin should be tied LOW
21	CRIN	crystal/resonator input
22	CROUT	crystal/resonator output
23	TEST2	test control input 2; this pin should be tied LOW
24	CL16	16.9344 MHz system clock output
25	CL11	11.2896 or 5.6448 MHz clock output (3-state)
26	RA	radial actuator output
27	FO	focus actuator output
28	SL	sledge control output
29	TEST3	test control input 3; this pin should be tied LOW
30	VDDD1(P)	* digital supply voltage 1 for periphery
31	DOBM	bi-phase mark output (externally buffered; 3-state)
32	VSSD1	* digital ground 1
33	MOTO1	motor output 1; versatile (3-state)
34	MOTO2	motor output 2; versatile (3-state)
35	SBSY	subcode block sync output (3-state)
36	SFSY	subcode frame sync output (3-state)
37	RCK	subcode clock input
38	SUB	P-to-W subcode output bits (3-state)
39	VSSD2	* digital ground 2
40	V5	versatile output pin 5
41	V4	versatile output pin 4
42	V3	versatile output pin 3 (open-drain)
43	KILL	kill output (programmable; open-drain)
44	EF	C2 error flag; output only defined in CD ROM modes and 1fs modes (3-state)
45	DATA	serial data output (3-state)
46	WCLK	word clock output (3-state)
47	VDDD2(P)	* digital supply voltage 2 for periphery
48	SCLK	serial bit clock output (3-state)
49	VSSD3	* digital ground 3
50	CL4	4.2336 MHz microcontroller clock output
51	SDA	microcontroller interface data I/O line (open-drain output)
52	SCL	microcontroller interface clock line input
53	RAB	microcontroller interface R/W and load control line input (4-wire bus mode)
54	SILD	microcontroller interface R/W and load control line input (4-wire-bus mode)
55	n.c.	not connected
56	VSSD4	* digital ground 4
57	RESET	power-on reset input (active LOW)
58	STATUS	servo interrupt request line/decoder status register output (open-drain)
59	VDDD3(C)	* digital supply voltage 3 for core
60	C2FAIL	indication of correction failure output (open-drain)
61	CFLG	correction flag output (open-drain)
62	V1	versatile input pin 1
63	V2	versatile input pin 2
64	LDON	laser drive on output (open-drain)

* Note : All supply pins must be connected to the same external power supply voltage.

7000 : TDA1302T

PIN	SYMBOL	DESCRIPTION
1	O4	output of diode current amplifier 4
2	O6	output of diode current amplifier 6
3	O3	output of diode current amplifier 3
4	O1	output of diode current amplifier 1
5	O5	output of diode current amplifier 5
6	O2	output of diode current amplifier 2
7	LDON	control pin for switching the laser ON and OFF
8	VDDL	laser supply voltage
9	RFE	equalized output voltage of sum signal of amplifiers 1 to 4
10	RF	unequalized output
11	HG	control pin for gain switch
12	LS	control pin for speed switch
13	CL	external capacitor
14	ADJ	reference input normally connected to ground via a resistor
15	GND	0 V supply; substrate connection (ground)
16	LO	current output to the laser diode
17	MI	laser monitor diode input
18	VDD	amplifier supply voltage
19	I2	photo detector input 2 (central)
20	I5	photo detector input 5 (satellite)
21	I1	photo detector input 1 (central)
22	I3	photo detector input 3 (central)
23	I6	photo detector input 6 (satellite)
24	I4	photo detector input 4 (central)

Q103/Q104 : TDA7073AT

PIN	SYMBOL	DESCRIPTION
1	IN1-	negative input 1
2	IN1+	positive input 1
3	n.c.	not connected
4	n.c.	not connected
5	VP	positive supply voltage
6	IN2+	positive input 2
7	IN2-	negative input 2
8	n.c.	not connected
9	OUT2+	positive output 2
10	GND2	ground 2
11	n.c.	not connected
12	OUT2-	negative output 2
13	OUT1-	negative output 1
14	GND1	ground 1
15	n.c.	not connected
16	OUT1+	positive output 1

Q304 : TDA1315H

SYMBOL	PIN	PADCELL	DESCRIPTION
RC _{fil}	1	E029	PLL loop filter input
V _{ref}	2	E029	decoupling internal reference voltage output
V _{DDA}	3	E008	analog supply voltage
V _{SSA}	4	E004	analog ground
IECIN1	5	E007	high sensitivity IEC input
IECIN0	6	IPP04	TTL level IEC input
IECSEL	7	IUP04	select IEC input 0 or 1 (0 = IECIN0; 1 = IECIN1); this input has an internal pull-up resistor
IECO	8	OPFH3	digital audio output for optical and transformer link
IECOEN	9	IUP04	digital audio output enable (0 = enabled; 1 = disabled/3-state); this input has an internal pull-up resistor
TESTB	10	IPP04	enable factory test input (0 = normal application; 1 = scan mode)
TESTC	11	IPP04	enable factory test input (0 = normal application; 1 = observation outputs)
UNLOCK	12	OPP41A	PLL out-of-lock (0 = not locked; 1 = locked); this output can drive an LED
FS32	13	OPP41A	indicates sample frequency = 32 kHz (active LOW); this output can drive an LED
FS44	14	OPP41A	indicates sample frequency = 44.1 kHz (active LOW); this output can drive an LED
FS48	15	OPP41A	indicates sample frequency = 48 kHz (active LOW); this output can drive an LED
CHMODE	16	OPP41A	use of channel status block (0 = professional use; 1 = consumer use); this output can drive an LED
V _{DD2}	17	E008	digital supply voltage 2
V _{SS2}	18	E009	digital ground 2
RESET	19	IDP09	initialization after power-on, requires only an external capacitor connected to V _{DD2} ; this is a Schmitt-trigger input with an internal pull-down resistor
PD	20	IPP04	enable power-down input in the standby mode (0 = normal application; 1 = standby mode)
CTRLMODE	21	IUP04	select microcontroller/stand-alone mode (0 = microcontroller; 1 = stand-alone); this input has an internal pull-up resistor
LADDR	22	IPP04	microcontroller interface address switch input (0 = 000001; 1 = 000010)
LMODE	23	IPP09	microcontroller interface mode line input
LCLK	24	IPP09	microcontroller interface clock line input
LDATA	25	IOF24	microcontroller interface data line input/output
STROBE	26	IDP04	strobe for control register (active HIGH); this input has an internal pull-down resistor
UDAVAIL	27	OPF23	synchronization for output user data (0 = data available; 1 = no data)
TESTA	28	IPP04	enable factory (scan) test input (0 = normal application; 1 = test clock enable)
COPY	29	OPP41A	copyright status bit (0 = copyright asserted; 1 = no copyright asserted); this output can drive an LED
INVALID	30	IOD24	validity of audio sample input/output (0 = valid sample; 1 = invalid sample); this pin has an internal pull-down resistor
DEEM	31	OPF23	pre-emphasis output bit (0 = no pre-emphasis; 1 = pre-emphasis)
MUTE	32	IUP04	audio mute input (0 = permanent mute; 1 = mute on receive error); this pin has an internal pull-up resistor
I ² SSEL	33	IUP04	select auxiliary input or normal input in transmit mode
SDAUX	34	IPP04	auxiliary serial data input; I ² S-bus
SD	35	IOF24	serial audio data input/output; I ² S-bus
WS	36	IOF24	word select input/output; I ² S-bus
SCK	37	IOF29	serial audio clock input/output; I ² S-bus
I ² SOEN	38	IUP04	serial audio output enable (0 = enabled; 1 = disabled/3-state); this input has an internal pull-up resistor
SYSCLK1	39	IPP09	system clock input (transmit mode)
SYSCLK0	40	OPFA3	system clock output (receive mode)
V _{SSD1}	41	E008	digital ground 1
V _{DD1}	42	E008	digital supply voltage 1
CLKSEL	43	IUP04	select system clock (0 = 384f _s ; 1 = 256f _s); this input has an internal pull-up resistor
RC _{int}	44	E029	integrating capacitor output

QD03/QD53 : TDA1541A/S2

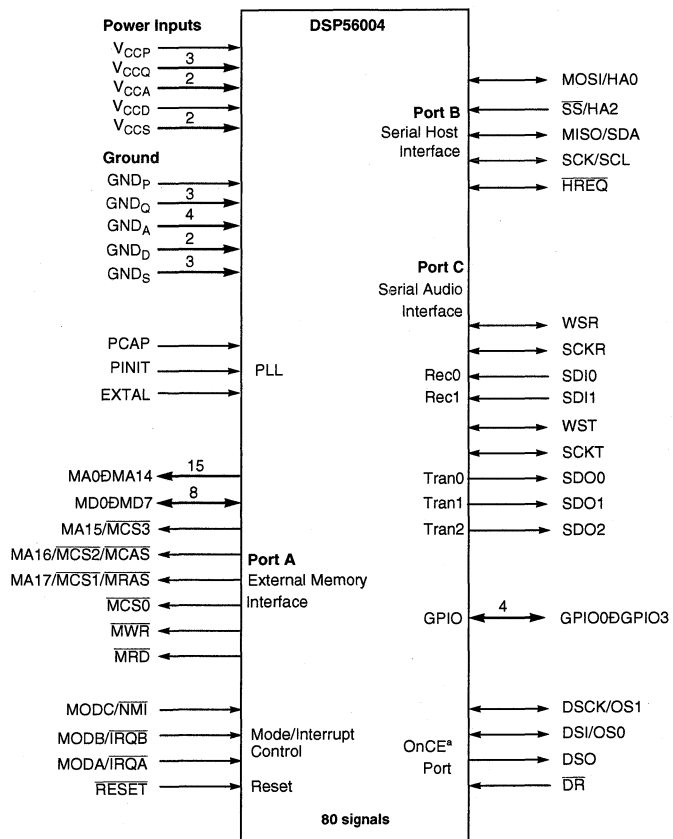
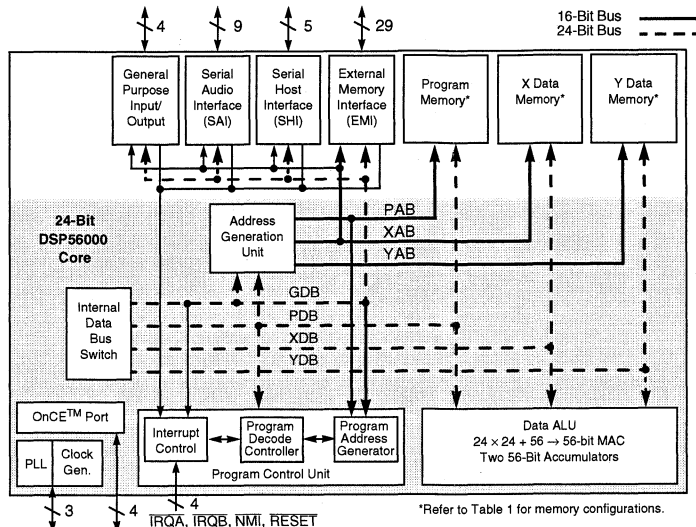
PINNING

SYMBOL	PIN	DESCRIPTION
LE/WS ⁽¹⁾	1	latch enable input/ word select input
BCK ⁽¹⁾	2	bit clock input
DATA L /DATA ⁽¹⁾	3	data left channel input/ data input (selected format)
DATA R ⁽¹⁾	4	data right channel input
GND(A)	5	analog ground
AOR	6	right channel output
DECOU	7 to 13	decoupling
GND (D)	14	digital ground
V _{DD2}	15	-15 V supply voltage
COSC	16,17	oscillator
DECOU	18 to 24	decoupling
AOL	25	left channel output
V _{DD1}	26	-5 V supply voltage
OB/TWC ⁽¹⁾	27	mode select input
V _{DD}	28	+5 V supply voltage

Note

1. See Table 1 data selection input.

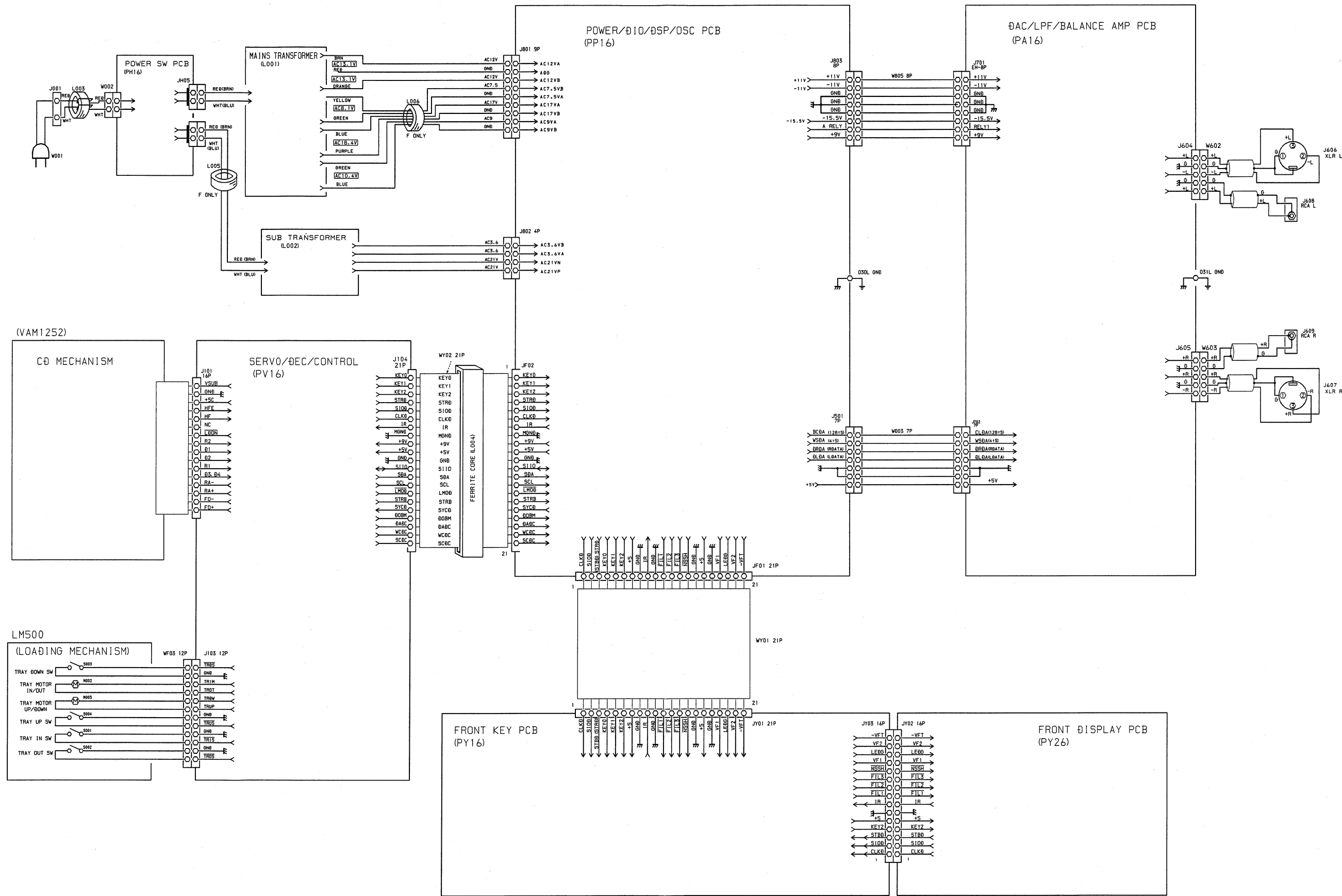
Q507/Q509 : DSP56004



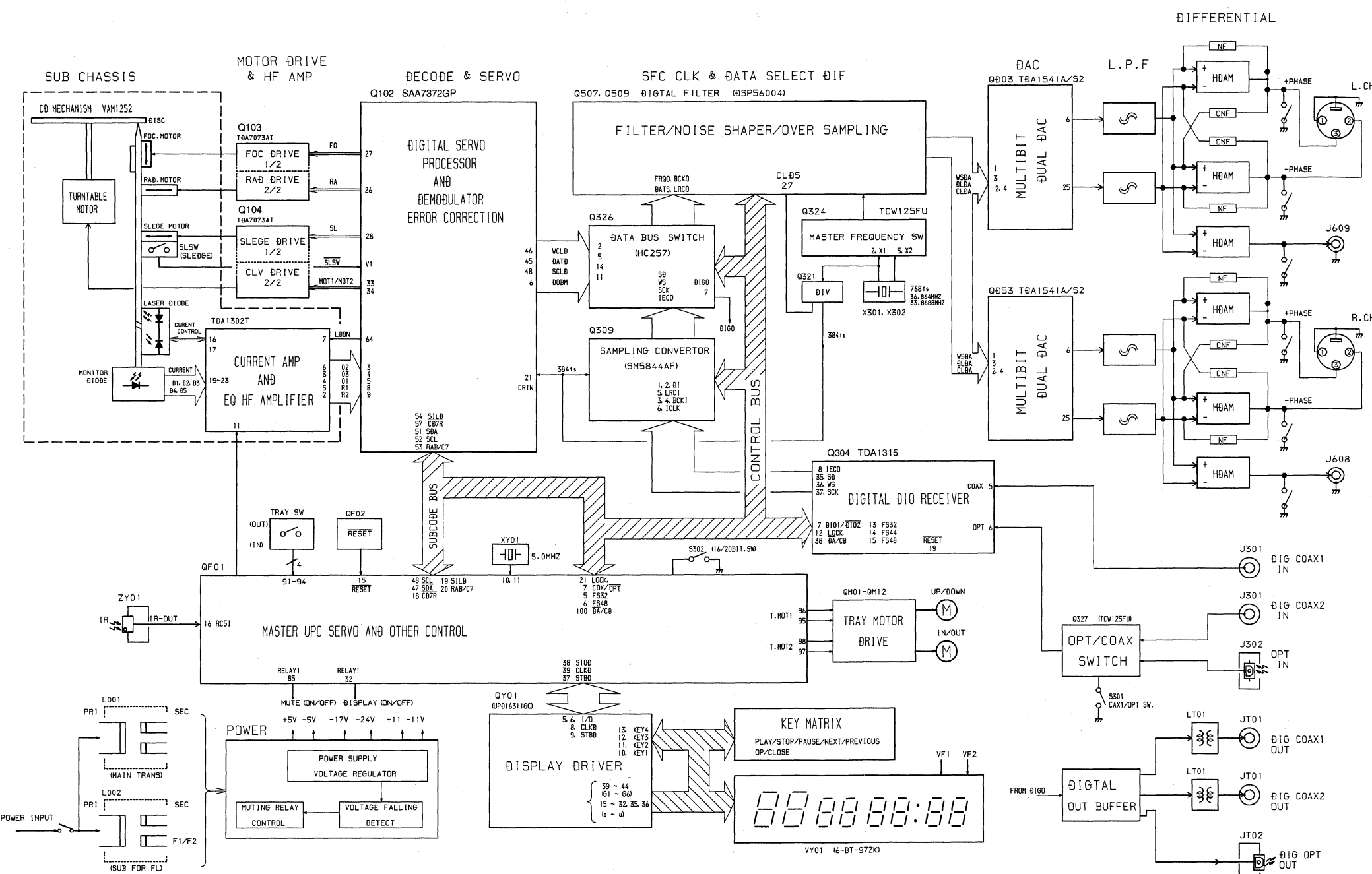
QF01 : μPD78076 MAIN

Pin No.	Port Name	Function	In/Out	Active	To/From	Description
1	STRB	P120	Out	High	Q304	Strobe signal for control register for Q304(TDA1315H)
2	LMOD	P121	Out	Low	Q304	Interface mode line for Q304(TDA1315H)
3	OPEN	P122	---	---	---	---
4	GND	P123	---	---	GND	GND
5	FS32	P124	In	Low	Q304	Sampling frequency input (L = 32KHz Receiving)
6	FS48	P125	In	Low	Q304	Sampling frequency input (L = 48KHz Receiving)
7	COAX/OPT	P126	Out	Low	Q304	Digital input select signal (L = Optical, H = Coaxial)
8	DMUT	P127	Out	Low	Q304	Digital muting control signal for Q304(TDA1315H)
9	GND	IC	---	---	GND	GND
10	5MHzXTAL	X2	---	---	XF01	Clock out (5MHz)
11	5MHzXTAL	X1	---	---	XF01	Clock in (5MHz)
12	+5V	Vdd	---	---	+5V	Power supply +5V
13	OPEN	XT2	---	---	---	---
14	+5V	XT1	---	---	+5V	Power supply +5V
15	REST	RESET	In	Low	QF02	Reset signal input for QF02
16	RC51	INTP0	In	↑	ZY01	Remote control signal input for ZY01
17	OPEN	INTP1	---	---	---	---
18	CD7R	P02	Out	Low	Q102	CD7 Reset signal for Q102(SAA7372GP)
19	SILD	P03	Out	Low	Q102	Strobe signal for servo part of Q102(SAA7372GP)
20	RAB7	P03	Out	Low	Q102	Strobe signal for digital part of Q102(SAA7372GP)
21	LOCK	INTP5	In	Low	Q304	Unlock signal of Q304(TDA1315H)
22	MSCP	INTP6	In	Low	GND	GND
23	+5V	Avdd	---	---	+5V	Power supply +5V
24	+5V	Avref0	In	---	+5V	Power supply +5V
25	KEY0	AN10	In	Level	Tact Switch	Key Sensor
26	KEY1	AN11	In	Level	Tact Switch	Key Sensor
27	KEY2	AN12	In	Level	Tact Switch	Key Sensor
28	GND	AN13	---	---	GND	GND
29	MUTE	AN14	Out	High	Q507	Mute signal for DSP Q507(DSP56004)
30	PAUS	AN15	Out	High	Q507	Mute of pause on time for DSP Q507(DSP56004)
31	OPEN	AN16	---	---	(CD7L)	---
32	RELY2	AN17	Out	High	QY51	Display on/off control signal (L = off, H = on)
33	GND	Avss	---	---	GND	GND
34	OPEN	P130	In/Out	---	---	---
35	OPEN	P131	Out	---	---	---
36	+5V	Avref	In	---	+5V	Power supply +5V
37	STRD	P70	Out	Low	QY01	Strobe signal for QY01
38	S10D	SO2	Out	↑	QY01	Serial data for QY01
39	CLKD	SCK2	Out	Low	QY01	Serial clock for QY01
40	GND	Vss	---	---	GND	GND
41	OPEN	S11	In	---	---	---
42	OPEN	SO1	---	---	---	---
43	OPEN	SCK1	---	---	---	---
44	OPEN	P23	---	---	---	---
45	OPEN	P24	---	---	---	---
46	OPEN	SB0	---	---	---	---
47	OPEN	SB1	In/Out	---	---	---
48	SDA	SCK0	Out	---	Q102/Q304	Serial data signal for Q102/Q304
49	SCL	A0	---	---	Q102/Q304	Serial clock signal for Q102/Q304
50	OPEN	A1	---	---	---	---
51	OPEN	A2	---	---	---	---
52	OPEN	A3	---	---	---	---
53	OPEN	A4	---	---	---	---
54	OPEN	A5	---	---	---	---
55	OPEN	A6	---	---	---	---
56	OPEN	A7	---	---	---	---
57	GND	D0	---	---	GND	GND
58	GND	D1	---	---	GND	GND
59	GND	D2	---	---	GND	GND
60	GND	D3	---	---	GND	GND
61	GND	D4	---	---	GND	GND
62	GND	D5	---	---	GND	GND
63	GND	D6	---	---	GND	GND
64	GND	D7	---	---	GND	GND
65	OPEN	A8	---	---	---	---
66	OPEN	A9	---	---	---	---
67	OPEN	A10	---	---	---	---
68	OPEN	A11	---	---	---	---
69	OPEN	A12	---	---	---	---
70	OPEN	A13	---	---	---	---
71	GND	Vss	---	---	GND	GND
72	OPEN	A14	---	---	(RA12)	---
73	RA11	A15	Out	High	Q506	Audio data select signal output (L = 16Bit)
74	16WD	P60	In	Low	GND	Audio data select signal input (L = 16Bit)
75	FMUT	P61	Out	High	QN05	Mute of switching on time killer
76	RSD2	P62	Out	Low	Q309,Q509	Reset of Q309,Q509
77	RSD1	P63	Out	Low	Q507	Reset of Q507
78	NSSH	RD	Out	Low	Q508,QY10	Noise shaper on/off signal (L = on, H = off)
79	FIL3	WR	Out	High	Q508,QY08	Filter 3 select signal (H = select of filter 3)
80	FIL2	P66	Out	High	Q508,QY08	Filter 2 select signal (H = select of filter 2)
81	FIL1	P67	Out	High	QY07	Filter 1 select signal (H = select of filter 1)
82	OPT1	P100	In	High	Q303	Optical input select (H = OPT, L = COAX1)
83	OPEN	TO6	---	---	---	---
84	OPEN	P102	---	---	---	---
85	RELY1	P103	Out	High	D301	Audio muting control signal of poer on/off(H=mute on)
86	MSL1	P30	In	High	High Level	---
87	MSL2	P31	In	Low	GND Level	---
88	OPEN	P32	---	---	---	---
89	CDRW	P33	Out	High	NC	---
90	SLSW	P34	In	Low	VAM1201	Sledge detect switch (L = in end)
91	TROS	P35	In	Low	TRAY	Tray in/out detect switch (L = out end)
92	TRIS	P36	In	Low	TRAY	Tray in/out detect switch (L = in end)
93	TRUS	P37	In	Low	TRAY	Tray up/down detect switch (L = up end)
94	TRDS	P39	In	Low	TRAY	Tray up/down detect switch (L = down end)
95	TROM	P91	Out	High	QM10	Tray motor control signal (H = tray out)
96	TRIM	P93	Out	High	QM09	Tray motor control signal (H = tray in)
97	TRDM	P94	Out	High	QM12	Tray motor control signal (H = tray down)
98	TRUM	P95	Out	High	QM11	Tray motor control signal (H = tray up)
99	AMUT	P95	Out	Low	NC	---
100	DA/CD	P96	Out	Low	Q504	Mode select (L = D/A Mode, H = CD Mode)

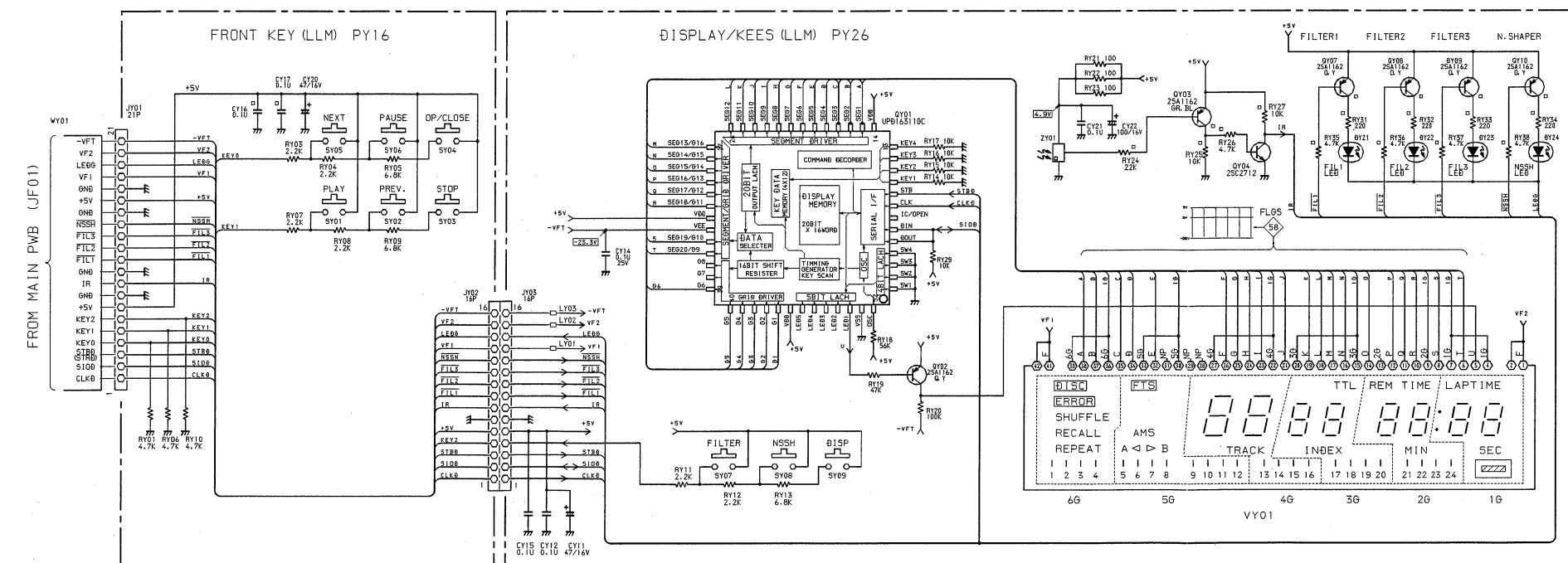
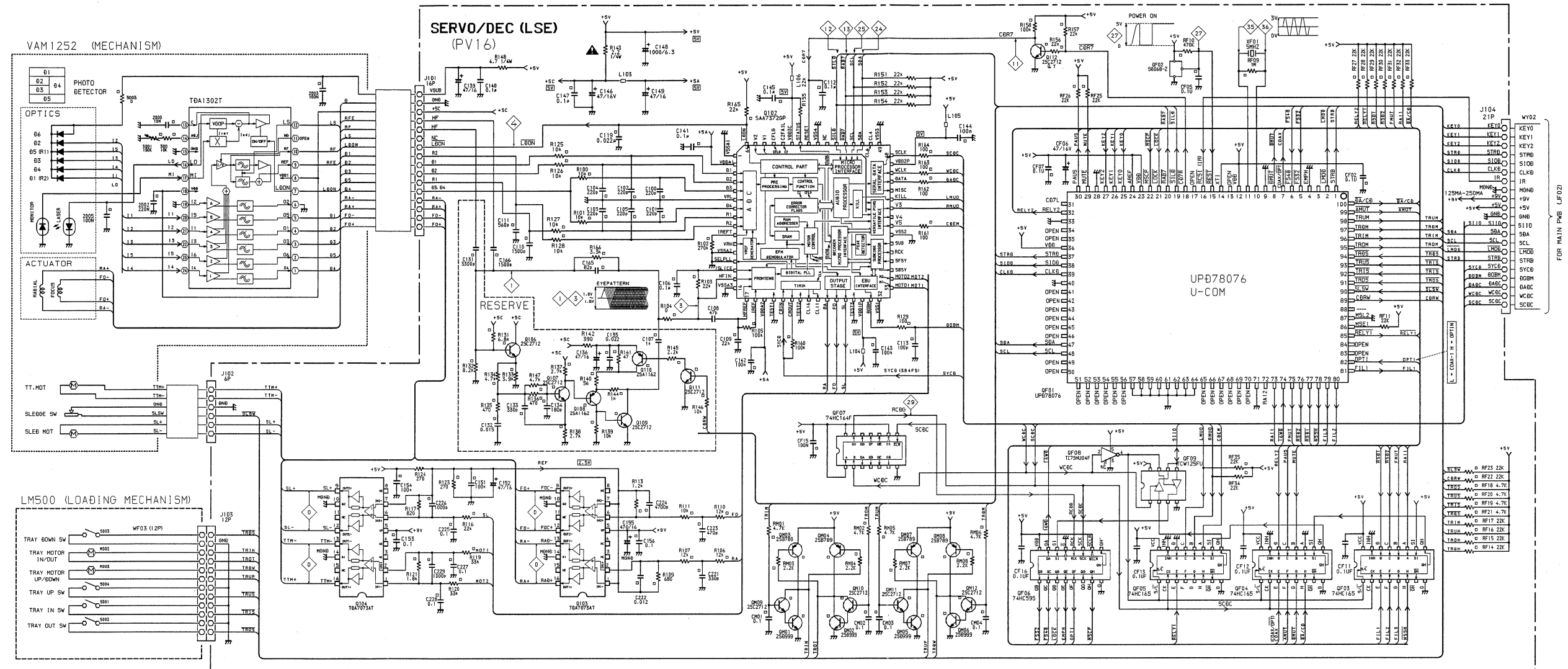
6. WIRING DIAGRAM



7. BLOCK DIAGRAM

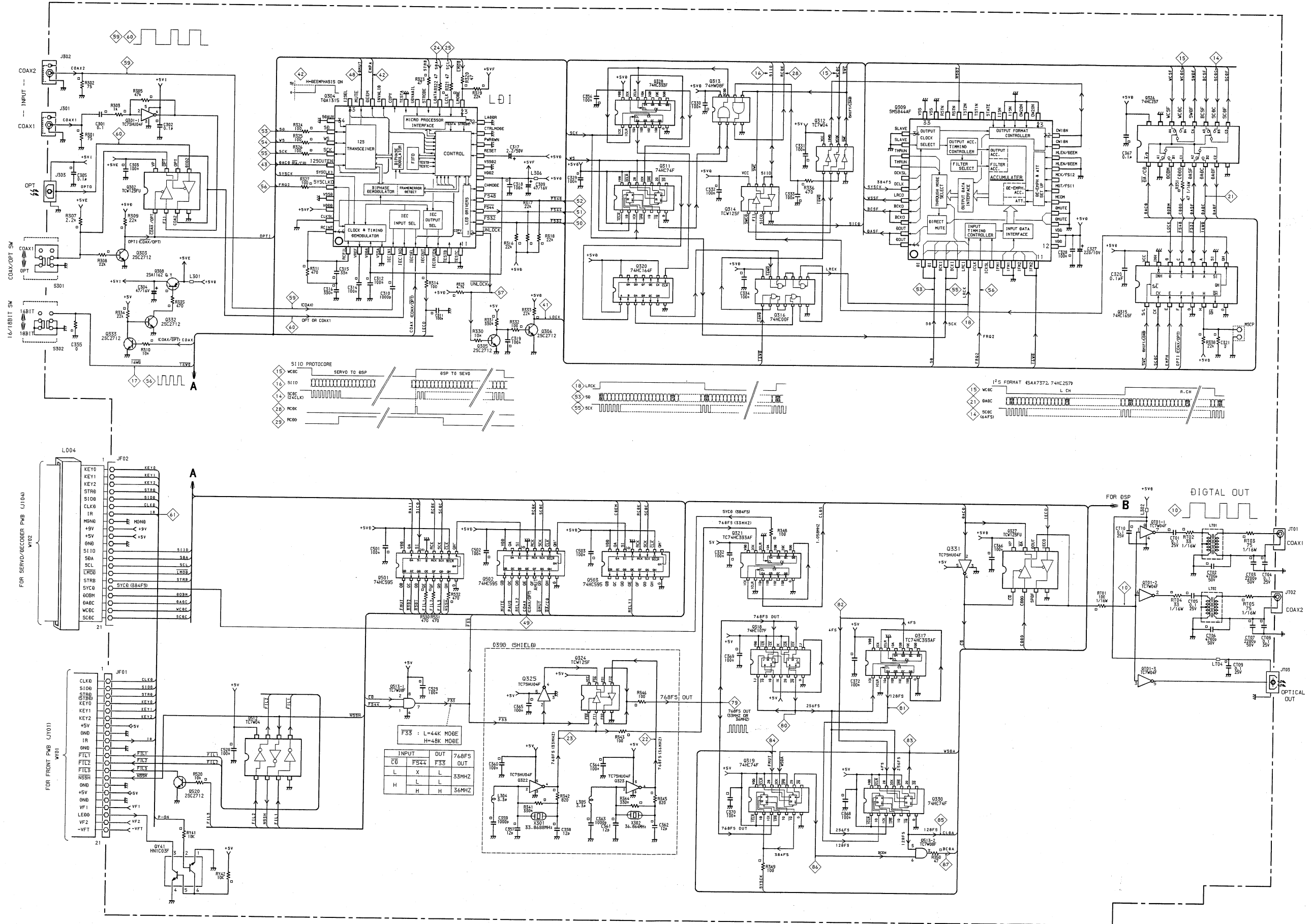


9. SCHEMATIC DIAGRAM AND PARTS LOCATION



	6G	5G	4G	3G	2G	1G
A	ERROR	A < B	13	20	21	-
B	SHUFFLE	-	14	19	22	COLON
C	RECALL	-	15	18	23	-
D	REPEAT	AMS	16	17	24	LAP TIME
E	DISC	-	-	TTL	REM TIME	-
F	-	-	1a	1a	1a	1a
G	-	-	2a	2a	2a	2a
H	-	-	1f	1f	1f	1f
I	-	-	2f	2f	2f	2f
J	-	-	1b	1b	1b	1b
K	-	-	2b	2b	2b	2b
L	4	5	1g	1g	1g	1g
M	3	6	2g	2g	2g	2g
N	2	7	1c	1c	1c	1c
O	1	8	2c	2c	2c	2c
P	-	9	1e	1e	1e	1e
Q	-	10	2e	2e	2e	2e
R	-	11	1d	1d	1d	1d
S	-	12	2d	2d	2d	2d
T	-	FTS	TRACK	INDEX	MIN	SEC
U						

POWER AND DIG-INTERFACE (PP16 1/2)



FROM DIGITAL INPUT

B

DSP56004

DSP56004

LMU

LPS

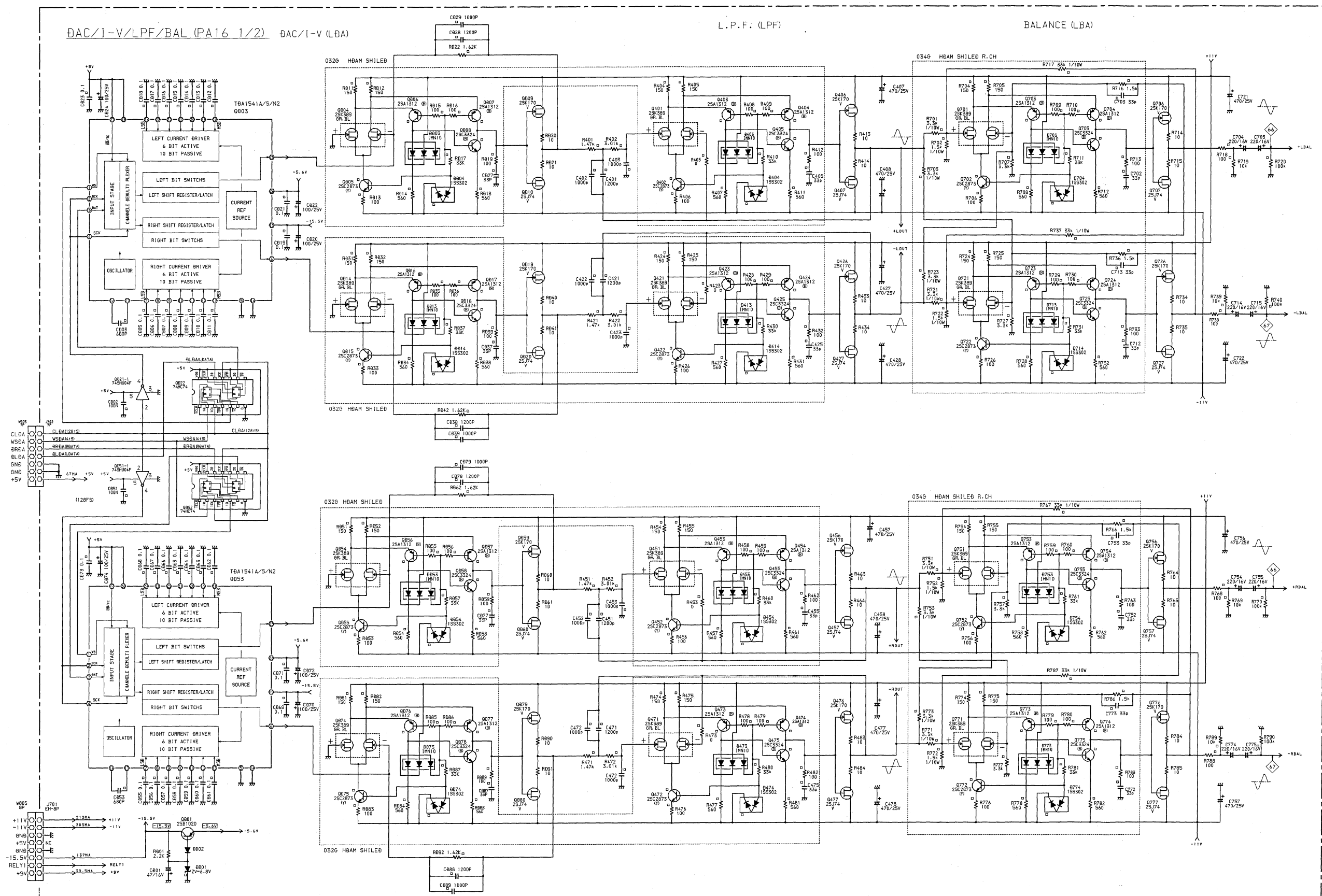
LPS

LLM

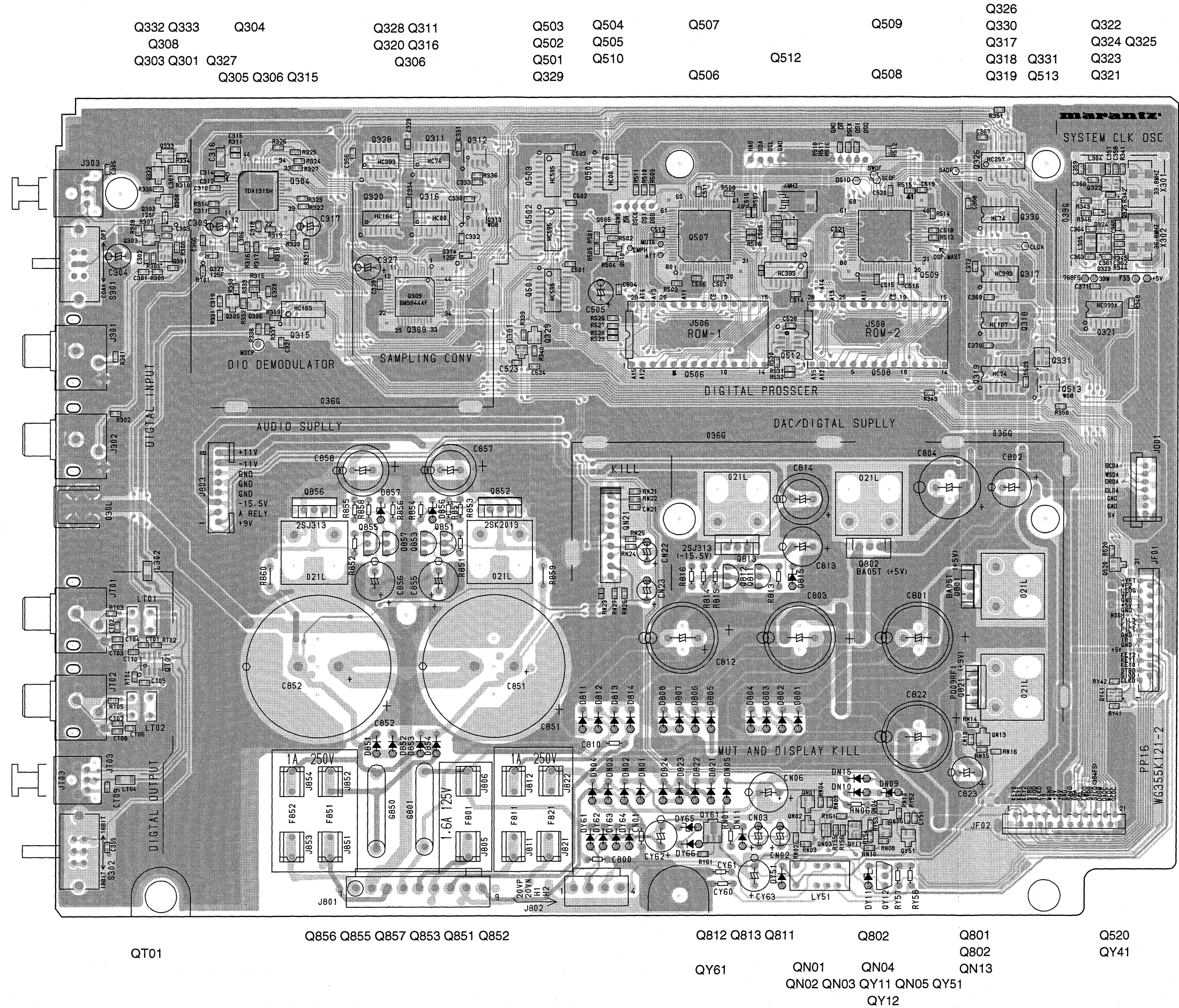
LPS

MAIN PWB (PP16)

FOR BAC/LPF PWB
TBA1541A/S2
16 BIT WORD



PP16

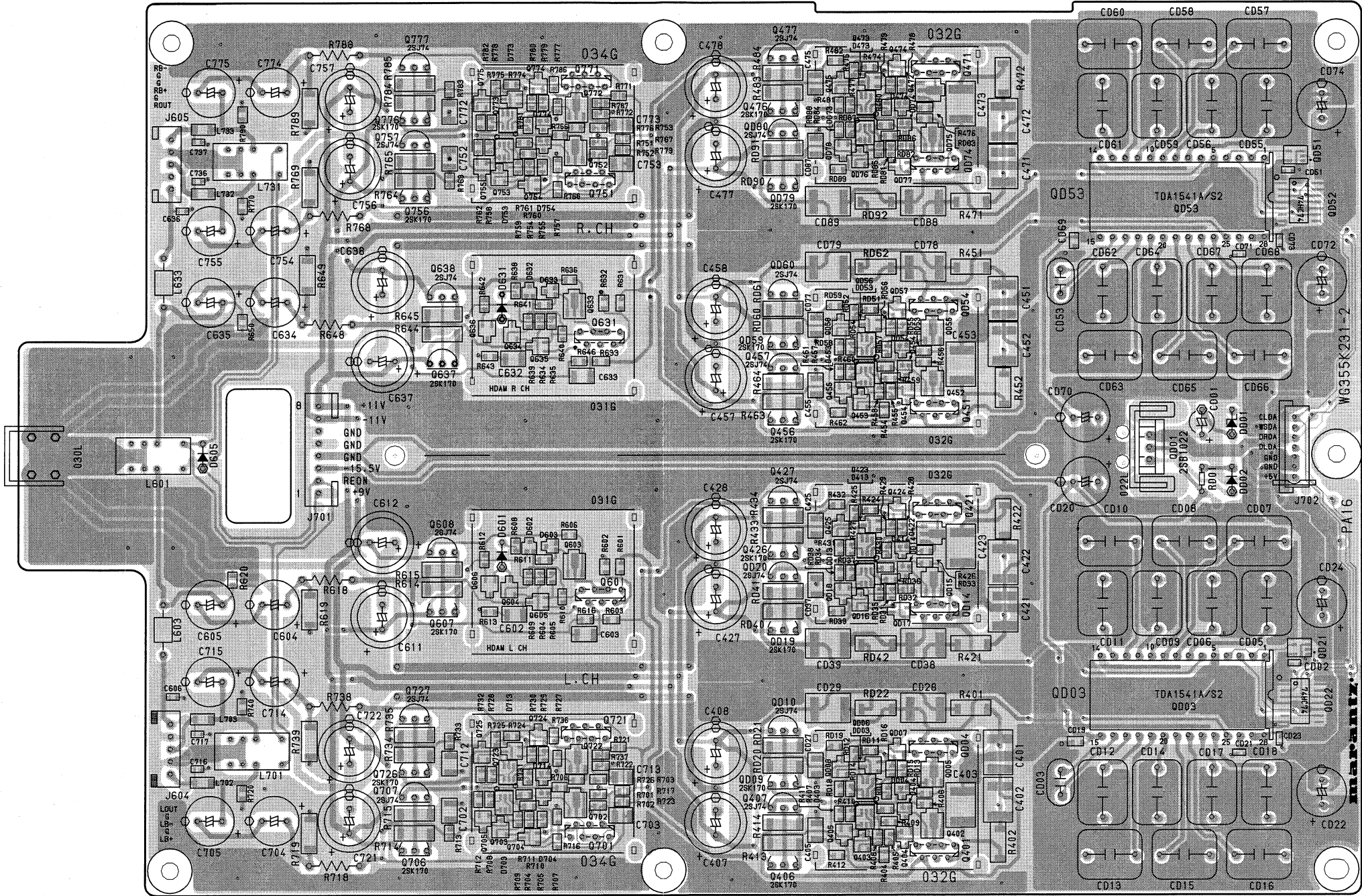


PA16

Q777 Q776 Q775 Q773 Q774 Q772
Q757 Q756 Q755 Q753 Q754 Q752
Q638 Q636 Q634 Q635 Q633 Q631
Q637

Q477 Q476 Q475 Q473 Q474 Q427 Q471
QD80 QD79 QD78 QD76 QD77 QD75 QD74
QD60 QD59 QD58 QD56 QD57 QD55 QD54
Q457 Q456 Q455 Q453Q454 Q452 Q451

QD53 QD51 QD52
QD01



Q608
Q607 Q606 Q604 Q605 Q603 Q601
Q727 Q726 Q725 Q723 Q724 Q722 Q721
Q707 Q706 Q705 Q703 Q704 Q702 Q701

Q427 Q426 Q425 Q423 Q424 Q427 Q421
QD20 QD19 QD18 QD16 QD17 QD15 QD14
QD10 QD09 QD08 QD06 QD07 QD05 QD04
Q407 Q406 Q405 Q403Q404 Q402 Q401

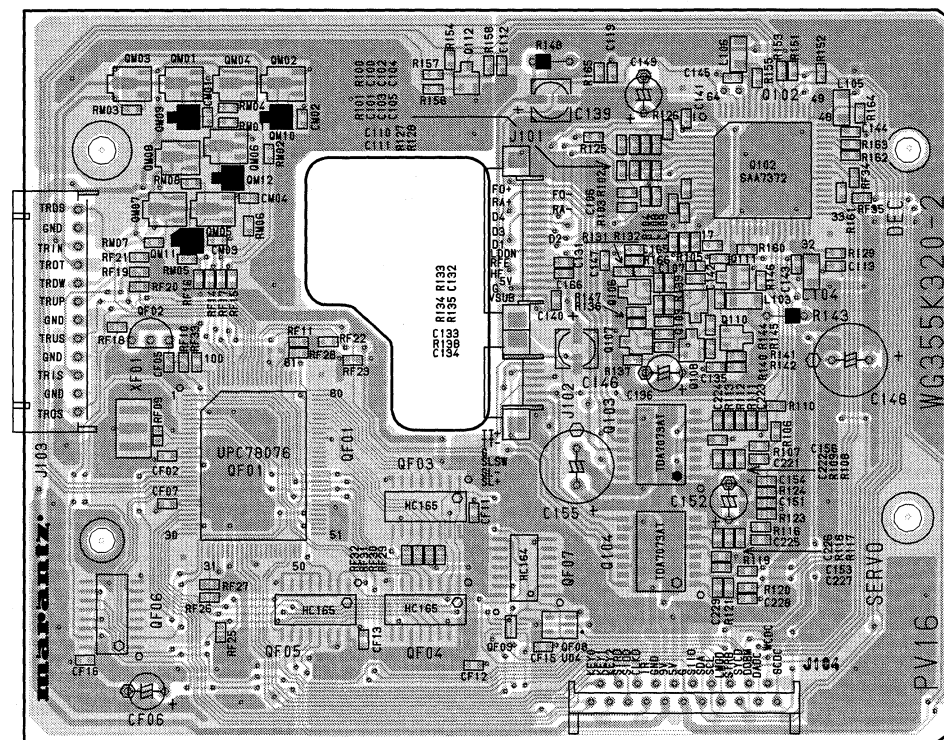
QD21 QD22
QD03

PV16

QM01 ~ QM12
QF02

Q112

Q106 ~ Q111 Q102



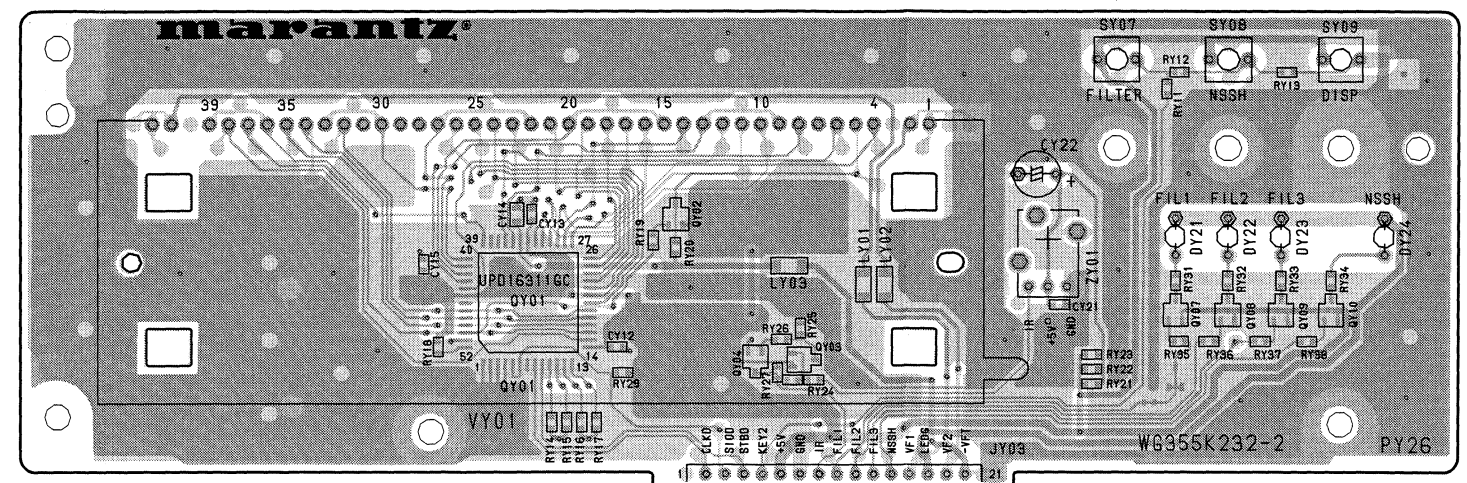
	QF01	QF03	Q103	Q104
QF06	QF05	QF04	QF07	QF08

PY16

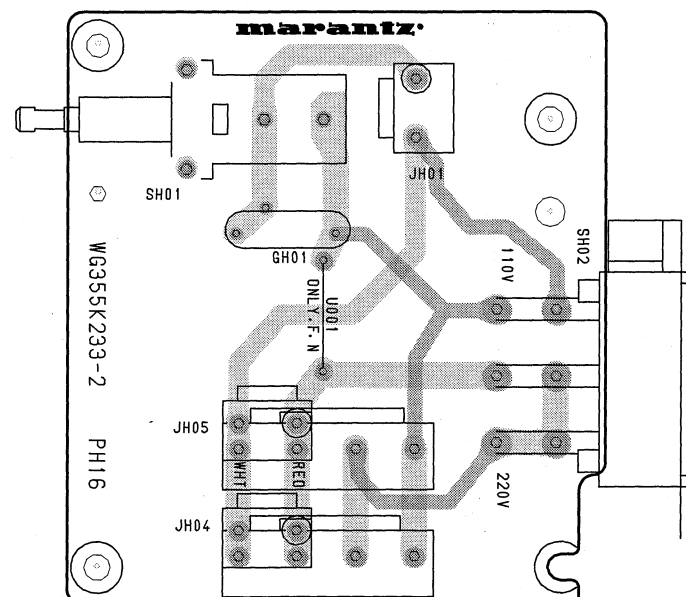
QY01

QY02 QY04 QY03

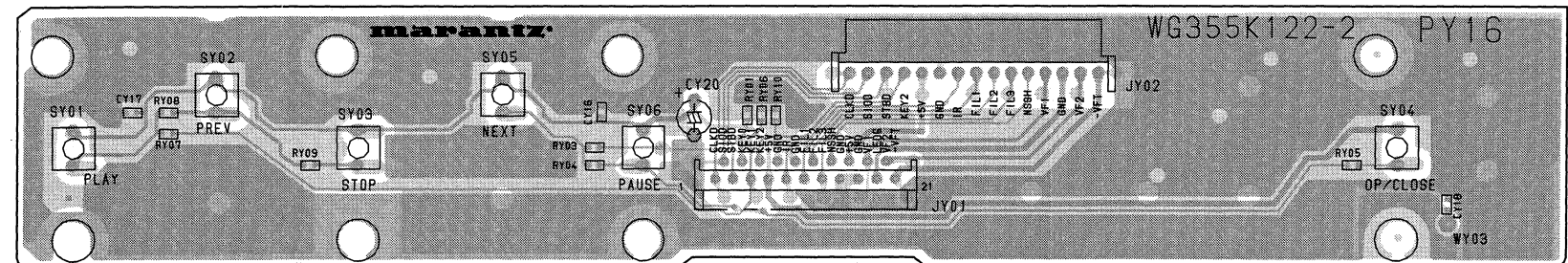
QY07 ~ QY10



PH16



PY26



Exploded view diagram of a VCR chassis showing various components and their assembly sequence. The diagram includes a main chassis (001D) with a front panel assembly (001B) and a loader assembly (A001). Key components include the front panel (001B), loader assembly (A001), and various mounting brackets and screws. The diagram is labeled with part numbers and assembly instructions.

MARK MATERIAL/FIN

(M)	STEEL/COPPER
(U)	STEEL/BLACK
(K)	STEEL/BLACK

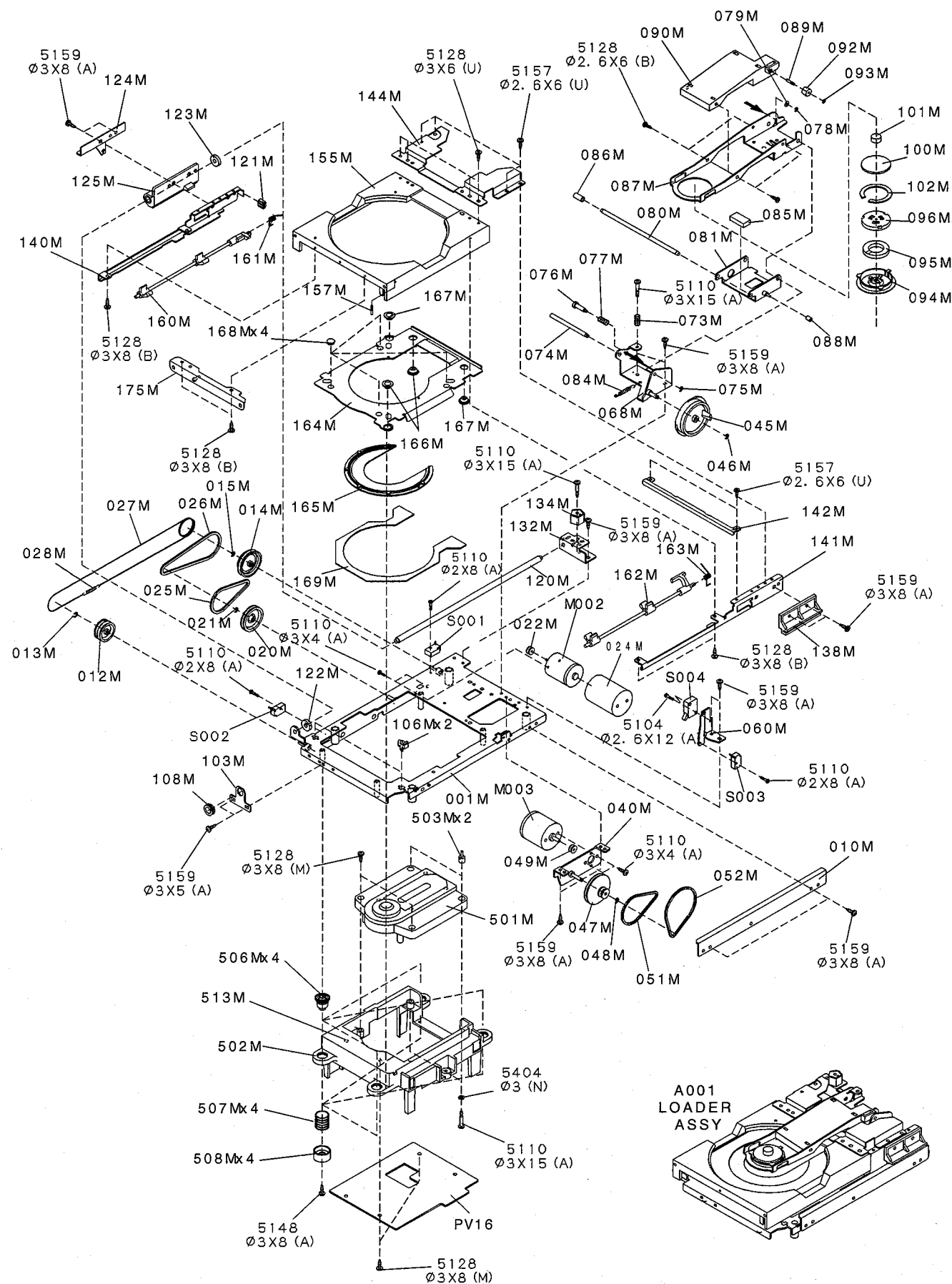
MARK	MATERIAL/FINISH
(M)	STEEL/COPPER
(U)	STEEL/BLACK
(A)	STEEL/CHROMATE

(VERS.:VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, /::EUROPE)

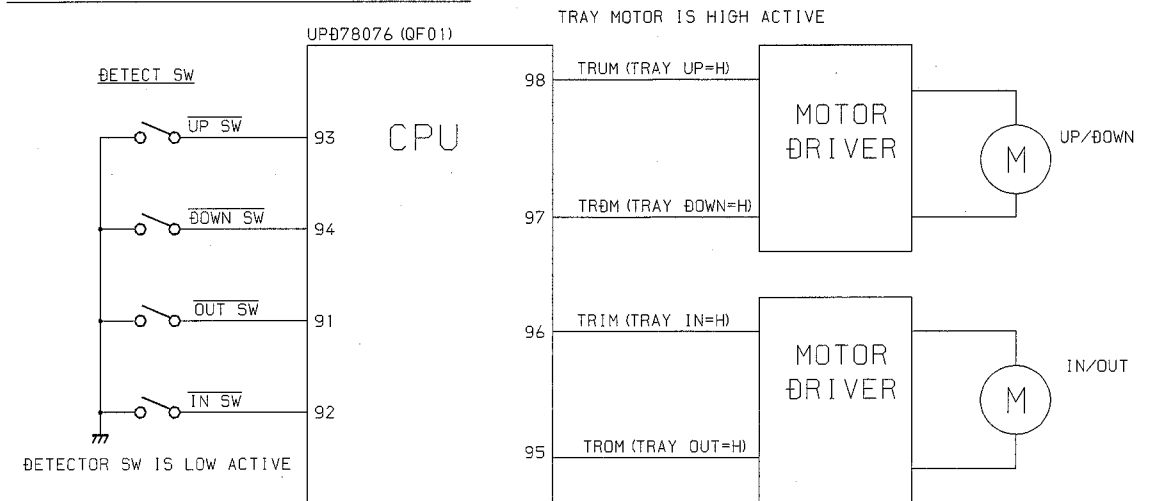
POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
002B		4822 459 05285	FRONT PANEL	355K248110					
003B		4822 426 10823	ESCUTCHEON, FRONT SIDE	355K063110	001T	F		PACKING	
			PIECE LEFT GLD		001T	K		USER GUIDE	355K851110
004B		4822 426 10824	ESCUTCHEON, FRONT SIDE	355K063120	001T	/02	4822 736 16822	USER GUIDE	355K851350
			PIECE RIGHT GLD					USER GUIDE	355K851310
007B		4822 454 13454	BADGE, META-LETTER	208J251010	Z003		4822 219 10702	REMOTE COMMANDER,	ZK355K0010
			MARANTZ SILVER					RC-D7CD	
010B		4822 463 11251	BUSHING, POWER BUTTON	355K259040					
013B		4822 492 71359	SPRING, RETAINER BUTTON	270K115030					
			GROUND						
015B		4822 463 11252	RETAINER, BUSH BUTTON	355K104120					
			PLAY STOP PAUSE						
017B		4822 532 40221	RETAINER, BUSH BUTTON	270K104010					
			OPEN/CLOSE						
020B		4822 410 12398	BUTTON, ASSY PLAY GLD	355K270520					
030B		4822 410 12399	BUTTON, ASSY STOP GLD	355K270530					
040B		4822 410 12401	BUTTON, ASSY PAUSE GLD	355K270540					
050B		4822 410 12402	BUTTON ASSY, OPEN/CLOSE	355K270550					
060B		4822 492 71357	SPRING, BUTTON LARGE	270K115010					
061B		4822 462 71931	BUFFER,	270K056010					
070B		4822 463 11253	BUSHING, FILTER	355K259020					
			BUTTON/LED						
075B		4822 463 11254	BUSHING, TRACK BUTTON	355K259030					
080B		4822 410 12403	BUTTON, FILTER	355K270170					
085B		4822 410 12404	BUTTON, TRACK	355K270160					
096B		4822 450 10643	WINDOW, GLASS,PINK	355K158010					
			SMOKE						
130B		4822 410 12405	BUTTON, POWER ASSY GLD	355K270510					
146B		4822 442 01801	ESCUTCHEON, TRAY LID	355K063030					
			GLASS						
001D			LID, TOP COVER	355K257110					
002D			ESCUTCHEON, LOUVER TOP	231J063110					
			COVER GLD						
020D			SIDE PANEL, LEFT GLD	355K249110					
021D			SIDE PANEL, RIGHT GLD	355K249120					
024D		4822 454 30488	ESCUTCHEON, SIDE PANEL	270K063050					
028G		4822 402 11299	LINK, POWER SW. LINK	355K121010					
095G		4822 462 42132	LEG, U D60	163J057220					
100G			SCREW, 001G + A001 PIVOT	355K010010					
A001		4822 691 10787	LOADER ASSY VAM1252	355K304520					
▲ J001		4822 265 11399	JACK, 2P AC INLET SOT-16C	YJ04002360					
J081	K	4822 265 10092	JACK, AC ADAPTER.SMK	YJ04001240					
			S-16116						
▲ L001	F		MAINS TRANSFORMER 100V	TS46010010					
▲ L001	K		MAINS TRANSFORMER	TS46010040					
			110/220V						
▲ L001	/02	4822 146 11139	MAINS TRANSFORMER 230V	TS46010020					
▲ L002	F		SUB TRANSFORMER 100V	TS13521010					
▲ L002	K		SUB TRANSFORMER	TS13521040					
			110/220V						
▲ L002	/02	4822 146 11141	SUB TRANSFORMER 230V	TS13521020	001S			PACKING CASE, HI-FI GL	355K801020
L003			FERRITE CORE,	FC50230010	002S			CUSHION, FRONT	270K809010
			TFCK-23-11-14		003S			CUSHION, REAR	270K809020
L004			FERRITE CORE,	FC90280010	009S			PROTECTOR, COVER	355K269010
			HF70SH28X2X10						
L005	F		FERRITE CORE,	FC50150020	Z001			BATTERY, UM-4NEPH/2S	ZF24302000
			ZCAT1518-0730		Z002			CONNECTIVE CORD,	ZD01000680
L006	F		FERRITE CORE,	FC50150020				RCA CABLE ASSY	
			ZCA1518-0730						
W001	F	4822 321 11337	MAINS CORD, 125V	ZC01802080					
W001	K		MAINS CORD, 2.5A 250V	ZC01803090					
W001	/02	4822 321 11439	MAINS CORD, 10A 250V	ZC01803080					

(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, /*:EUROPE)

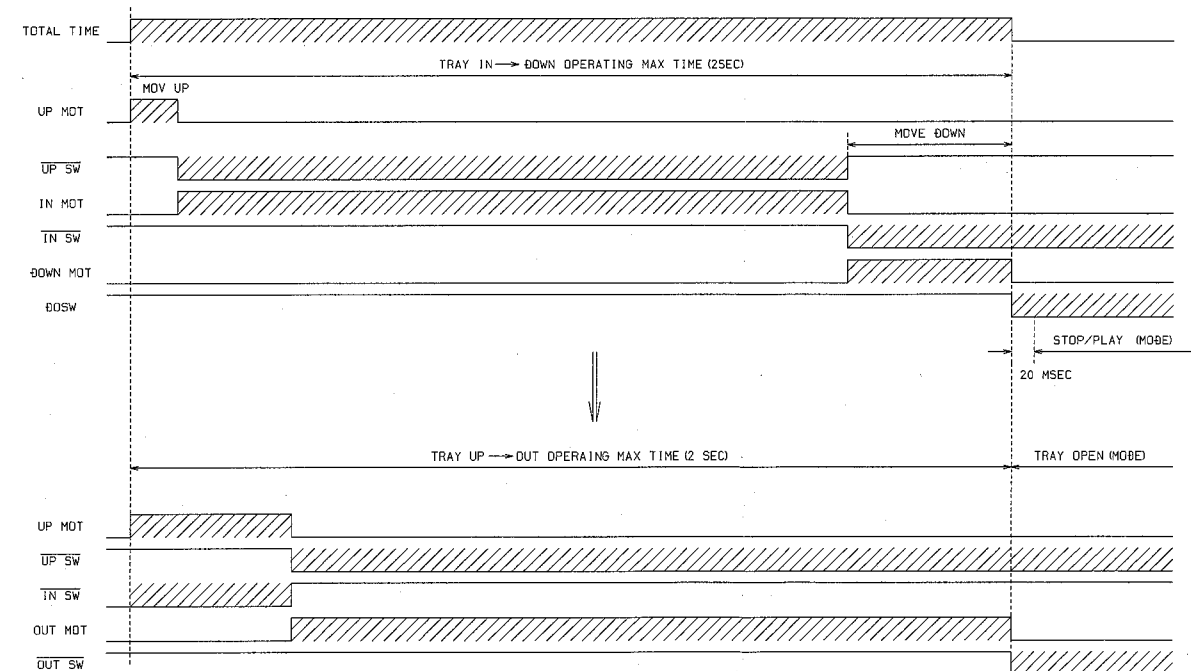
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A001		4822 691 10787	LOADER ASSY VAM1252	355K304520	155M		4822 441 12323	CASE, TRAY BLK	167K064140
012M		4822 528 81163	PULLEY, WIRE WHEEL F	167K262010	157M		4822 535 92576	SHAFT, TRAY GUIDE PINS	167K112050
013M		4822 530 70043	RG RING E, WHEEL	64002500R0	160M		4822 402 61089	LEVER, TRAY LIFT LEFT	167K354500
014M		4822 528 81387	PULLEY, WIRE WHEEL R	221K262010	161M		4822 492 70633	SPRING, TRAY LIFT LEFT	221K115070
015M		4822 530 70043	RG RING E, WHEEL R	64002500R0	162M		4822 402 61091	LEVER, TRAY LIFT RIGHT	167K354510
020M		4822 528 81238	PULLEY, MIDDLE TRAY DRIVE	167K262050	163M		4822 492 70632	SPRING, TRAY LIFT RIGHT	221K115060
021M		4822 530 70043	RG RING E, E MIDDLE PULLEY	64002500R0	164M		4822 418 10424	TRAY, U/D DISC BLK	355K163010
022M		4822 528 81166	PULLEY, MOTOR	167K262040	165M		4822 418 10425	TRAY, SINGLE VAM1252	355K163020
024M			COVER, MOTOR	225K053010	166M		4822 532 11697	BUSHING, TRAY GUIDE	167K259010
025M		4822 358 30762	BELT, MOTOR	167K264010	167M		4822 532 21323	BUSHING, TRAY GUIDE	167K259020
026M		4822 358 31065	BELT, TRAY DRIVE	221K264010	168M		4822 532 11698	BUSHING, DISC BUFFER	167K259040
027M		4822 321 30374	JOINT, WIRE ROPE	221K125010	169M			BUFFER, SILENCER SHEET	355K056010
028M		4822 492 33161	SPRING, WIRE TENSION	221K115030	501M		4822 691 10788	MECHANISM, VAM 1252	355K304600
045M		4822 528 30392	CAM, CLAMPER DRIVE	221K054010	502M		4822 691 10789	CASE, MECHA VAM 1252	355K064010
046M		4822 530 70043	RG RING E, E 045M + 070M	64002500R0	503M			SHAFT, SUB-FIX AND TRAY GUIDE	221K112040
047M		4822 528 81164	PULLEY, CLAMPER MIDDLE	167K262020	506M		4822 532 21452	BUSHING, SUSPENSION RUBBER	221K259010
048M		4822 530 70043	RG RING E, E MIDDLE PULLEY	64002500R0	507M		4822 492 11745	SPRING, SUSPENSION	355K115010
049M		4822 528 81166	PULLEY, MOTOR	167K262040	508M		4822 530 70561	RETAINER, SUSPENSION SPRING STOPPER	221K104020
051M		4822 358 30762	BELT, MOTOR	167K264010	512M		4822 530 80349	SPRING WASHER, FOR 504M	54040302N0
052M		4822 358 30763	BELT, CAM DRIVE	167K264020	513M			SPACER, 502M, TO 169M, 170M	291K118030
073M		4822 492 70628	SPRING, DOWN ADJUSTER	167K115060	M002		4822 361 60467	D.C MOTOR, TRAY DRIVE	MM00800010
074M			SHAFT, CLAMPER BEARING	221K112010	M003		4822 361 60447	D.C MOTOR, CLAMPER DRIVE	MM01200130
075M		4822 530 70043	RG RING E, BEARING SHAFT	64002500R0	S001		4822 277 21132	SLIDE SW., TRAY IN END SMK	SS01020590
076M		4822 535 93105	SHAFT, L/R ADJUSTER	221K112020	S002		4822 277 21132	SLIDE SW., TRAY OUT END SMK	SS01020590
077M		4822 492 70631	SPRING, L/R ADJUSTER	221K115050	S003		4822 277 21132	SLIDE SW., CLAMPER DOWN END SENSOR	SS01020590
078M		4822 530 70122	RG RING E, E ADJUSTER END	64000200R0	S004		4822 271 30712	MINI SW., CLAMPER UP END SENSOR	SM01020550
079M		4822 532 52236	WASHER	221K012010					
080M		4822 535 92575	SHAFT, TO DRIVE 160M, 162M	167K112040					
081M		4822 402 61335	LEVER, CLAMPER DRIVE K	221K354520					
084M		4822 492 70629	SPRING, CLAMPER PULL DOWN	221K115020					
086M			COLLAR, TO 080M	225K055010					
087M			LEVER, CLAMPER	221K354010					
088M		4822 528 90837	ROLLER	221K358030					
089M		4822 535 93288	SHAFT	221K112150					
090M		4822 256 91866	HOLDER, CLAMPER ARM	221K271010					
092M		4822 528 90836	ROLLER	221K358020					
093M		4822 532 51467	STOPPER	316Y114010					
094M		4822 256 10563	CLAMPER, MAGNET CASE	355K005010					
095M		4822 526 10726	MAGNET	355K305010					
096M		4822 528 90783	COVER, YOKE FOR MAGNET	221K053010					
100M		4822 462 71811	BUFFER, CLAMPER	167K056110					
101M		4822 462 71809	BUFFER, CLAMPER TOP	158K056140					
102M		4822 466 61927	BUFFER, CLAMPER TOP	225K056030					
106M		4822 256 91867	HOLDER, TRAY FRONT SUPPORT	221K271020					
108M		4822 532 30509	BUSHING, FRONT GUIDE	225K259010					
120M			SHAFT, TRAY GUIDE	221K112060					
121M			BUFFER, TRAY IN-END	221K056040					
122M			BUFFER, TRAY OUT-END	221K056050					
123M			BUFFER, TRAY IN-END	221K056060					
125M		4822 256 91196	HOLDER, SLIDE BEARING K	167K271500					
134M			STOPPER, TRAY ADJUST	221K114010					
138M		4822 256 91195	HOLDER, SLIDE GUIDE RIGHT	167K271010					
140M			BRACKET, TRAY LEFT SIDE						
141M			BRACKET, TRAY RIGHT SIDE						
142M			STAY, REINFORCEMENT L/R						
144M			BRACKET, ADDITIONAL						



TRAY OPERATE IS FOLLOWING



TRAY TIMING

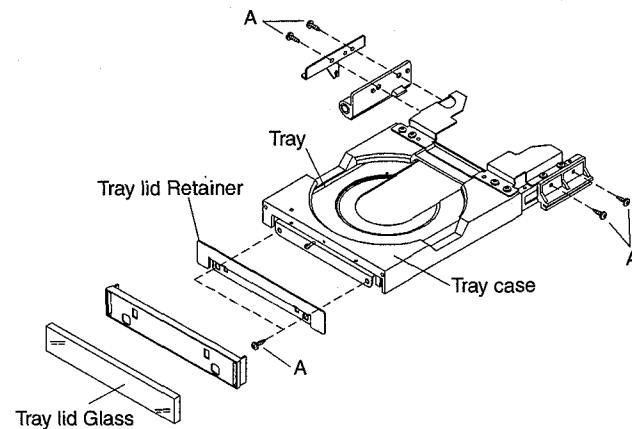


11. TRAY MECHANISM ADJUSTMENTS

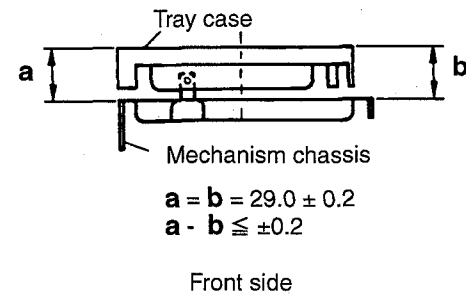
1. When mounting tray and tray case

(when replacing tray case because of damage etc.)

- a) When the tray has been positioned improperly with a deviated clearance to the front panel window, re-move the tray lid, loosen screws A and adjust by moving the tray frame within the range of the holes play.



For the tray tilt adjustment, refer to the figure below.

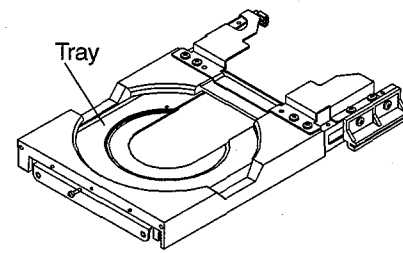


Adjust the tilt with screws A.

- b) The operating power of the tray is set to 250 - 350gr (Power OFF).



2. When the tray is disengaged to the lower side

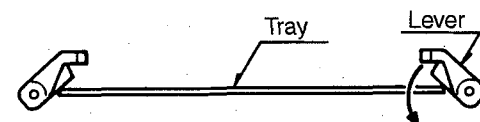


When the tray is pushed downward without the sub-chassis (VAM1252), it will be disengaged. So care will be necessary.

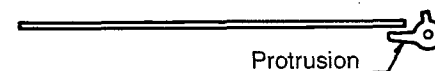
(Closing the tray without the sub-chassis also disengages the tray.)

Mount the tray referring to the figures below.

- a) Bring down the lever and put the tray on the protrusion of lever.



- b) While holding the tray, bring down the opposite lever and put the tray on the protrusion of the lever.



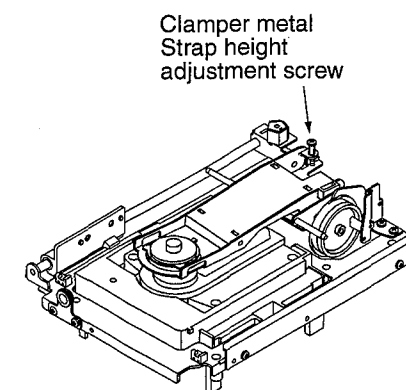
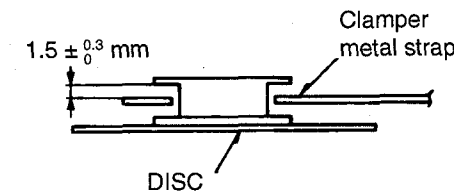
Note :

If both the levers are brought down at the same time, the tray cannot be raised. The levers should be brought down one by one.

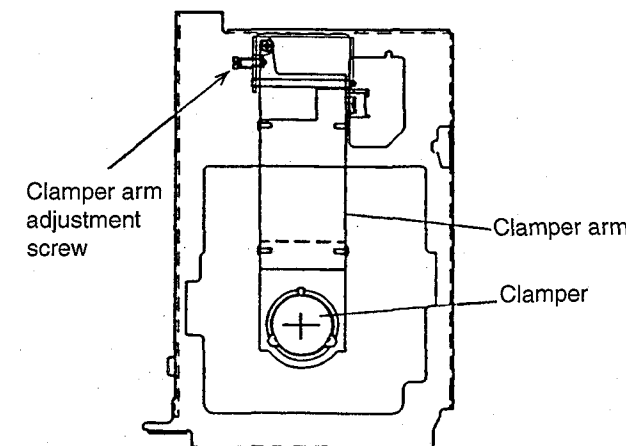
If the tray is forced to move to the original position, the two pins injected into the tray case may be bent.

3. When replacing the sub-chassis (VAM1252)

- a) The height of the sub-chassis turn table is different one by one. Adjust each turn table height so that the magnet clasper does not touch the clasper metal strap as shown in the figure.
 Standard ($1.5 \pm 0.3 / -0$ mm)

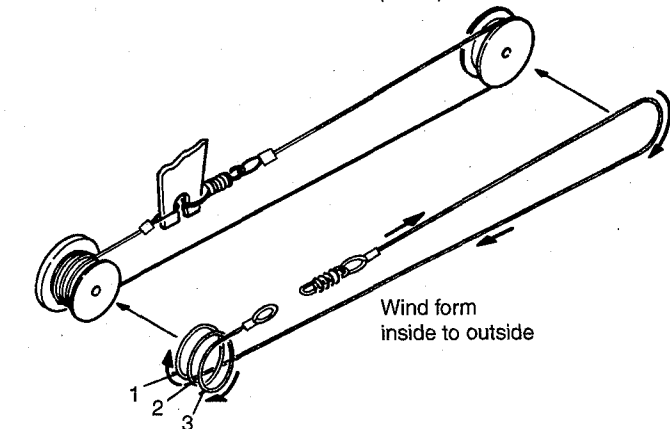


- b) After replacing the sub-chassis, readjust so that the magnet clasper does not touch the clasper metal strap at right and left sides. (The clasper metal strap should not be touched to other straps.)



4. Others

- a) For the loading wire winding, refer to the figure below.
 Wind from inside to outside (1 2 3).



- b) When the magnet clasper (094M) is replaced, bend the narrowest tab and remove the clasper. Bend the narrowest tab.

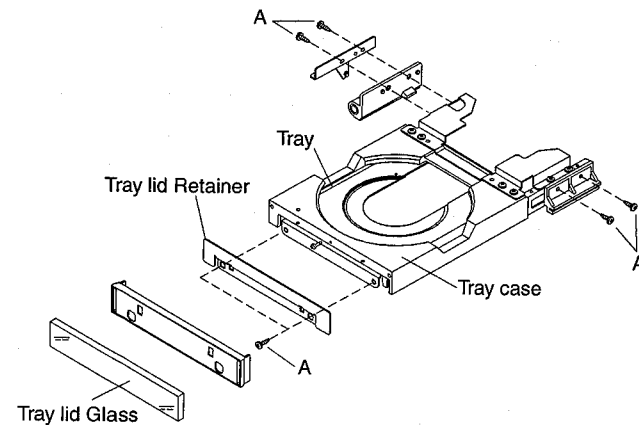


11. トレーメカニズムの調整

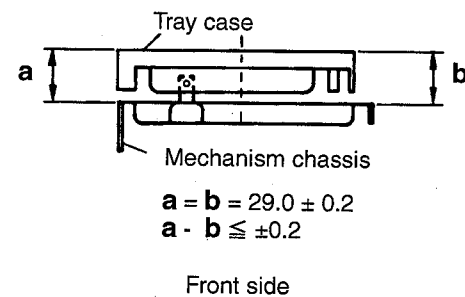
1. トレーおよびトレーケース取り付け時

(破損等でトレーケースを交換した場合等)

- a) トレーのフロントパネル窓に対する位置の狂いが発生した時はトレー蓋を外し、ネジ A をゆるめ穴のガタの範囲でトレー枠を動かし調整して下さい。

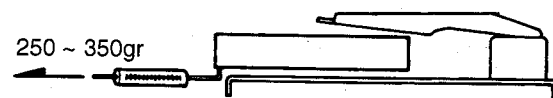


トレーの傾きについては下図を参考にしてください。

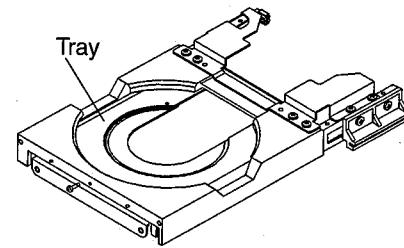


傾きもネジ A にて調整します。

- b) トレーの動作力は、250～350grの設定です。(電源OFF時)



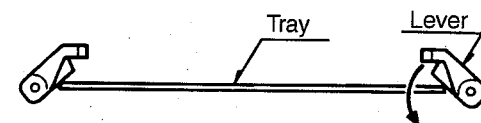
2. トレーが下側に外れた時



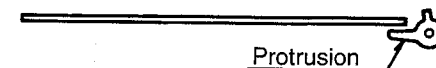
次の条件では、トレーが下側に外れるので注意願います。サブシャーシ (VAM1252) が無い状態にてトレーを下側に押すと外れます。(サブシャーシが無い状態にてCLOSEした時も同様です。)

下図の要領にて取り付けてください。

- a) レバーを下げて、レバーの突起にトレーをのせます。



- b) のせたら、トレーを押さえたまま反対側のレバーを下げて、突起にのせます。

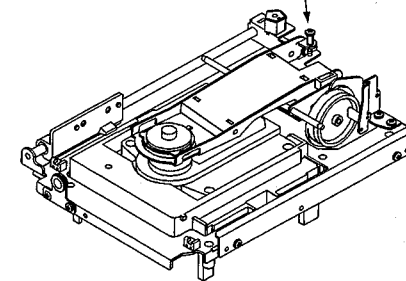
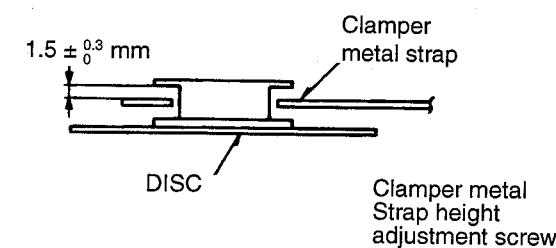


[注意]

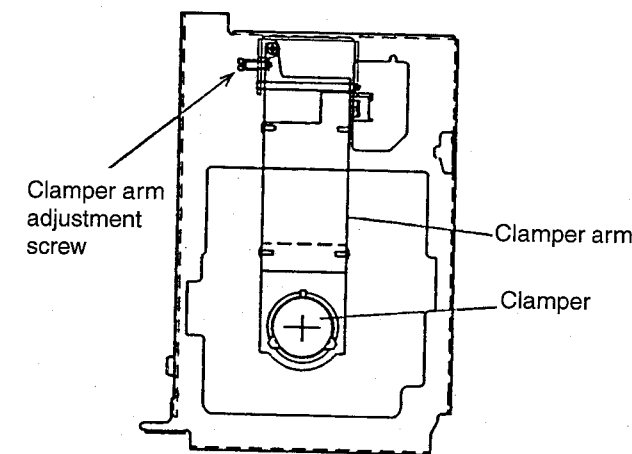
左右、2つのレバーを一度に下げても、トレーは上げられませんので、必ず片方ずつ下げて作業してください。トレーを無理に元の位置まで戻すと、トレーケースに圧入されている2本のピンが曲がる危険があります。

3. サブシャーシ (VAM1252) を交換した時

- a) サブシャーシのターンテーブル高さは1台ずつ違いますので、ターンテーブルの高さに合わせて下図のように、マグネットクランパーがクランパー金具に接触しないように、クランパー金具高さ調整ネジを調整して下さい。
規格 (1.5 +0.3 / -0 mm)

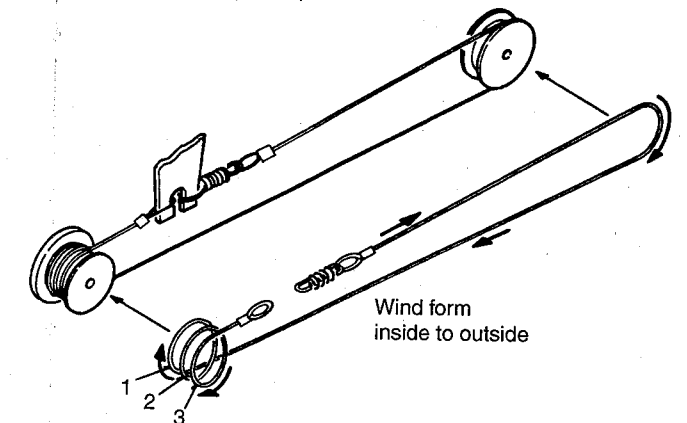


- b) サブシャーシ交換後、マグネットクランパーがクランパー金具に左右接触しないように、クランパーアーム調整ネジを再調整して下さい。(その際、クランパー金具と他の金具とが接しない様にする事)

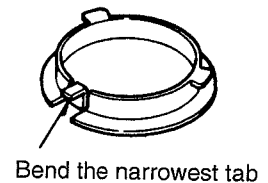


4. その他

- a) ローディングワイヤーの巻き付けは下図参照ください。内から外に巻く(1 2 3)。

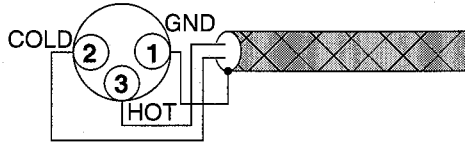


- b) マグネットクランパー (094M)の交換は1ヶ所曲がる構造の爪となっていますので、爪を傾けて取り外し、取り付けください。一番幅の細い爪が傾きます。

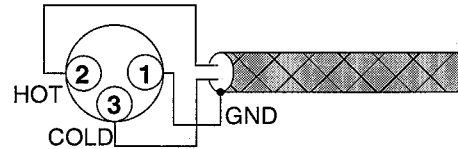


12. BALANCED JACKS

- 1. The balanced output connector uses a XLR connector.
- 2. The XLR connector for professional use is internally wired in either of the following two systems.
 - 1. USA system (PIN 2 = COLD, PIN 3 = HOT)



- 2. European system (PIN 2 = HOT, PIN 3 = COLD)



- 3 The CD-7 uses the USA system of 1.
When a preamp or main amplifier adopting the European system is connected using a cable with XLR balanced connectors, the reproduced signal may be inverted of phase. In this case, correct the wiring of the one of the XLR connectors on the extremities of the cable to the USA system by exchanging the connections of pins 2 and 3.
This will make it possible to play the signal with the correct phase.

12. BALANCED 端子について

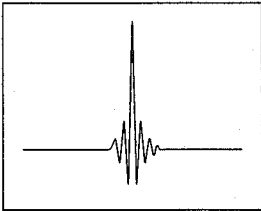
- 1 BALANCED 端子には XLR コネクターを使用しています。
- 2 XLR コネクターの接続方法は、プロフェッショナル用としてタイプが二通りあります。
 - 1. USA 方式 (2 PIN=COLD 3 PIN=HOT)

- 2. ヨーロッパ方式 (2 PIN=HOT 3 PIN=COLD)

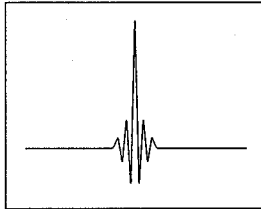
- 3 CD-7 では、1. の USA 方式を採用しています。
XLR BALANCEDケーブルを使用する場合、ヨーロッパ方式を採用しているプリアンプやメインアンプで再生した場合、信号が逆位相になる場合があります。
その場合は、片側の XLR コネクターの 2 PIN と 3 PIN を USA 方式となるようにつなぎ換えてください。
これで信号は正しい位相で再生されます。

13. DIGITAL FILTER

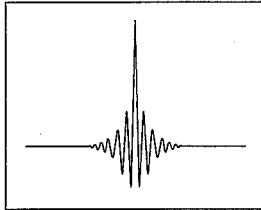
- FILTER-1
For playing music with smooth depth, such as analog records.



- FILTER-2
A sound between FILTER-1 and FILTER-3.



- FILTER-3
A well-balanced, standard sound for all sources.



- Changing the Filter Type
FILTER-1 is selected automatically when the power is turned on.
Press the FILTER button to switch to FILTER-2, again to switch to FILTER-3, and a third time to switch back to FILTER-1.

13. デジタルフィルターについて

- FILTER-1
インパルス応答では、プリエコーの少ない特性です。アナログレコードのような滑らかな奥行きのある音質傾向です。

- FILTER-2
インパルス応答では、プリエコー、アフターエコー共に少ない特性です。フィルター (FILTER-1 と FILTER-3) の両方の特性を合せ持ったバランスの音質傾向です。

- FILTER-3
インパルス応答では、プリエコー、アフターエコーが均等にある特性です。ソースを選ばないリファレンス的な音質傾向です。

- フィルタータイプ変更 (FILTER)
電源スイッチ ON 後の状態は、優先的に FILTER-1 がセレクトされています。
FILTER ボタンを一度押す度に、FILTER-2、FILTER-3 と切替わり、三度めに FILTER-1 に戻ります。
選択した FILTER のインジケーターが点燈します。

14. EXPLANATION OF DSP

The digital processing for DSP-1/DSP-2 (DSP56004) is the following compositions.

1. DSP-1 (Q507)

Mute (32-Sample<cosine curve> approx. 0.7mS)
-12dB attenuation (It is not available for CD-7)
De-emphasis (44k / 48k mode)
DC-Filter ON/OFF (It is fixed for CD-7)
Signal format (IIS-IN/OUT)

2. DSP-2 (Q509)

Digital filter (4fs<FIR>, 3Type-mode)
Noise shaper (first order) and Round
Offset of Output-DATA
Signal format (IIS-IN/OUT)

Procedure of DSP

The DSP56004 (Q507/Q509) loads data of ROM (Q506/Q508) at that moment of the product is POWER ON. The all parameters of default setting will be done approx. 0.5 seconds. And then, each DSP device starts digital processing by each parameter.

The product is set in Filter-1 of CD-mode initially when POWER ON.

When the filter and the noise shaper is shifted and the sampling frequency is shifted to other frequency except 44.1kHz, Those parameters are changed to other parameters.

REMARK : The change of the sampling frequency depend on the input of digital signal.

These changes of parameters are based on the function tables of ROM-1 and ROM-2 (Figure 1). Each function of DSP-1 and DSP-2 actuates individually.

If signals are confirmed at the input or output pins of DSP, that is actuated for DSP.

The setting confirmation of each mode after the parameter updated, which will be able to refer to the impulse signals of timing chart (Figure 2).

When mute or de-emphasis is switched, the parameters is not changed.

Because these switches control the pins of DSP devise (Q507) directly.

Then, the following status are confirmed by the pin control status.

Mute Pin 73(Q507) : High = on, Low = off
De-emphasis Pin 74(Q507) : High = on, Low = off

14. DSPの説明

DSP56004によるデジタル処理は以下2ブロック構成になっています。

1. DSP1 (Q507)

- ミュート機能(コサインカーブによる32-Sample約0.7mS)。
- 12dB アッテネーション機能(CD-7 使用せず)。
- ディエンファシス機能(44k/48k)。
- DC-Filter 機能。ON/OFF 可能(CD-7 では固定)。
- 信号フォーマット (IIS-IN/OUT)。

2. DSP2 (Q509)

- デジタルフィルタ機能(FIR による 4fs、3Type-mode)。
- ノイズシェーパー機能(first order)及びラウンド。
- Output-DATA のオフセット機能。
- 信号フォーマット (IIS-IN/OUT)。

DSP の動作説明

DSP56004 (Q507/Q509) は電源ONにした時、リセット状態から立ち上がる際に ROM (Q506/Q508) のデータをロードします。この間約0.5secでデフォルトのパラメーターの設定を全て完了します。完了すると各DSPはそれぞれのパラメーターによるデジタル処理を開始します。

電源ONにした時はイニシャルでCD-モードのFilter-1が設定されます。

操作ボタンによるFilterとノイズシェーパーの変更及びサンプリング周波数の切り換えの場合に限り、新たなパラメーターによるデジタル処理に切り変わります。

これらのパラメーターの変更はROM-1とROM-2の真理表(Table 1)によって決定されます。真理表からわかるように、それぞれの機能はDSP-1とDSP-2によって、個別に動作します。

また、DSPが動作しているかどうかは、DSPの入出力ピンに信号が出ていることで確認できます。パラメーターの更新がされてそれぞれのモードに設定されたかどうかは、パラメーターの更新シーケンスのタイムチャート (Figure 2) のインパルス信号の特性によって確認をします。

ミュートとディエンファシスのON/OFFではパラメーターの再設定は行いません。これらの切り換えはDSP (Q507) の端子を直接コントロールしています。従って、Pinをコントロールする事により下記の状態を確認できます。

ミュート : Pin 73(Q507)=Highでオン、Lowでオフ。
ディエンファシス : Pin 74(Q507)=Highでオン、Lowでオフ。

Table 1

ROM-1

A14	A13	A12	A11	FUNCTIONS
L	L	L	L	44kHz mode
L	L	L	H	44kHz mode
L	L	H	L	48kHz mode

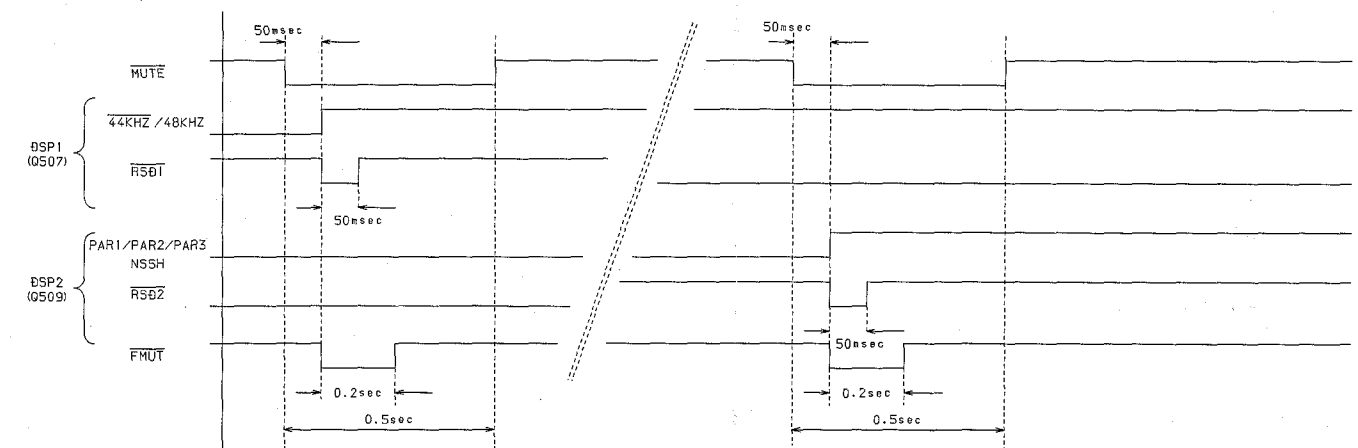
ROM-2

A15	A14	A13	A12	FILTERS (PARAMETER)
X	L	L	L	FIL3 (44.1kHz COEFFICIENT)
X	L	L	H	FIL2 (44.1kHz COEFFICIENT)
X	L	H	L	FIL1 (44.1kHz COEFFICIENT)
X	L	H	H	---
X	H	L	L	FIL3 (48kHz COEFFICIENT)
X	H	L	H	FIL2 (48kHz COEFFICIENT)
X	H	H	L	FIL1 (48kHz COEFFICIENT)
X	H	H	H	---

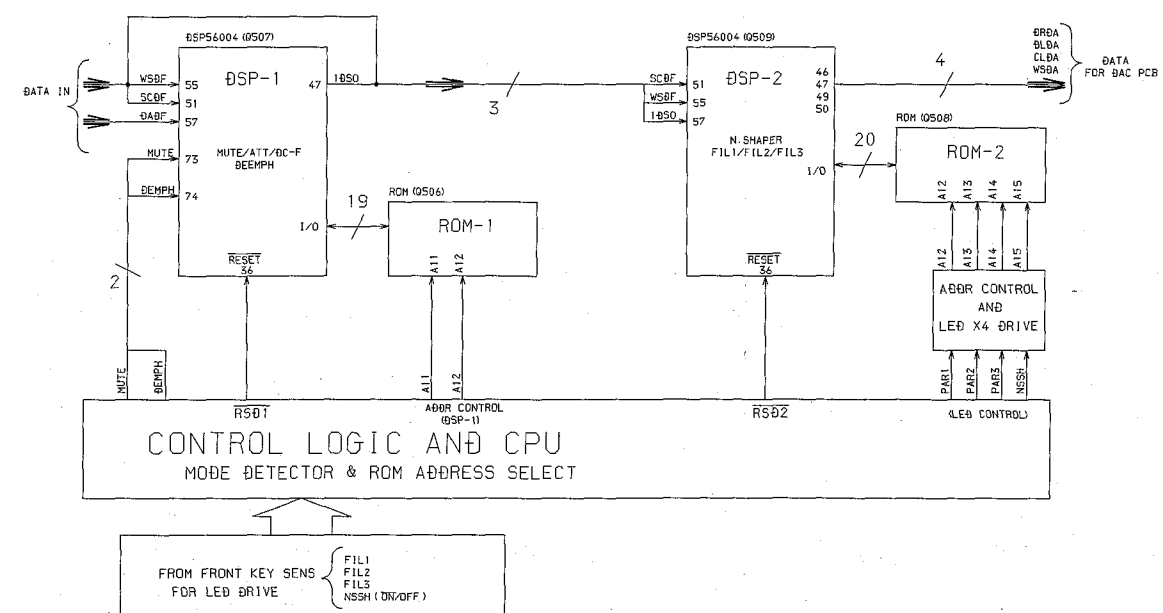
NOTE: A15 IS USED TO SWITCH ON/OFF THE NOISE SHAPER (LOW=OFF)

Figure 1

DSP PARAMETER SETTING TIMING



2-DSP CONTROL FLOW AND DATA STREAM



15. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

R***: 1) GD05 × × × 140, Carbon film fixed resistor, ±5% 1/4W
R***: 2) GD05 × × × 160, Carbon film fixed resistor, ±5% 1/6W

① — Resistance value

Examples ;

① Resistance value

0.1 Ω 001 10 Ω 100 1 kΩ 102 100 kΩ 104
0.5 Ω 005 18 Ω 180 2.7 kΩ 272 680 kΩ 684
1 Ω 010 100 Ω 101 10 kΩ 103 1 MΩ 105
6.8 Ω 068 390 Ω 391 22 kΩ 223 4.7 MΩ 475

Note : Please distinguish 1/4W from 1/6W by the shape of parts used actually.

CAPACITORS

C***: CERAMIC CAP.

3) DD1 × × × × 370, Ceramic capacitor
Disc type
Temp.coef. P350 ~ N1000, 50V
② Capacity value
Tolerance

Examples ;

② Tolerance (Capacity deviation)

±0.25 pF 0
±0.5 pF 1
±5% 5

* Tolerance of COMMON PARTS handled here are as follows :

0.5 pF ~ 5 pF ±0.25 pF
6 pF ~ 10 pF ±0.5 pF
12 pF ~ 560 pF ±5%

③ Capacity value

0.5 pF 005 3 pF 030 100 pF 101
1 pF 010 10 pF 100 220 pF 221
1.5 pF 015 47 pF 470 560 pF 561

C*** : CERAMIC CAP.

4) DK16 × × × × 300, High dielectric constant ceramic capacitor
Disc type
Temp.chara. 2B4, 50V
④ Capacity value

Examples ;

④ Capacity value

100 pF 101 1000 pF 102 10000 pF 103
470 pF 471 2200 pF 222

C*** : 5) ELECTROLY CAP. (E), 6) FILM CAP. (F)

5) EA × × × × × 10, Electrolytic capacitor
One-way lead type, Tolerance ±20%

⑤ Working voltage
Capacity value

Examples ;

⑤ Capacity value

0.1 μF 104 4.7 μF 475 100 μF 107
0.33 μF 334 10 μF 106 330 μF 337
1 μF 105 22 μF 226 1100 μF 118
2200 μF 228

⑥ Working voltage

6.3V 006 25V 025
10V 010 35V 035
16V 016 50V 050

6) DF15 × × × 350 Plastic film capacitor
DF15 × × × 310 One-way type, Mylar ±5% 50V
DF16 × × × 310 Plastic film capacitor
One-way type, Mylar ±10% 50V
⑦ Capacity value

Examples ;

⑦ Capacity value

0.001 μF (1000 pF) 102 0.1 μF 104
0.0018 μF 182 0.56 μF 564
0.01 μF 103 1 μF 105
0.015 μF 153

NOTE : 1) The above CODES (R***, R***, C***, C*** and C***) are omitted on the schematic diagram in some case.

2) On the occasion, be confirmed the common parts on the parts list.

3) Refer to "Common Parts List" for the other common parts (RI05, DD4, DK4).

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows;

1. KOA Corporation

Part No. (MJI) Type No. (KOA) Description
NH05 × × × 140 RF25S × × × × ΩJ (±5% 1/4W)
NH05 × × × 120 RF50S × × × × ΩJ (±5% 1/2W)
NH85 × × × 110 RF73B2A × × × × ΩJ (±5% 1/10W)
NH95 × × × 140 RF73B2E × × × × ΩJ (±5% 1/4W)

* Resistance value Resistance value
(0.1 Ω - 10 kΩ)

2. Matsushita Electronic Components Co., Ltd

Part No. (MJI) Type No. (MEC) Description
NF05 × × × 140 ERD-2FCJ × × × (±5% 1/4W)
RF05 × × × 140 ERD-2FCG × × × (±2% 1/4W)
NF02 × × × 140 ERD-2FCG × × × (±2% 1/4W)
RF02 × × × 140 ERD-2FCG × × × (±2% 1/4W)

* Resistance value * Resistance value

Examples ;

* Resistance value

0.1 Ω 001 10 Ω 100 1 kΩ 102 100 kΩ 104
0.5 Ω 005 18 Ω 180 2.7 kΩ 272 680 kΩ 684
1 Ω 010 100 Ω 101 10 kΩ 103 1 MΩ 105
6.8 Ω 068 390 Ω 391 22 kΩ 223 4.7 MΩ 475

ABBREVIATION AND MARKS

ANT. : ANTENNA	BATT. : BATTERY
CAP. : CAPACITOR	CER. : CERAMIC
CONN. : CONNECTING	DIG. : DIGITAL
HP. : HEADPHONE	MIC. : MICROPHONE
μ-PRO : MICROPROCESSOR	REC. : RECORDING
RES. : RESISTOR	SPK : SPEAKER
SW. : SWITCH	TRANSF. : TRANSFORMER
TRIM. : TRIMMING	TRS. : TRANSISTOR
VAR. : VARIABLE	X'TAL : CRYSTAL

NOTE ON SAFETY :

Symbol Δ Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol Δ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意 :

Δ がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, /--:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PA16-DAC/HDAM CIRCUIT BOARD						
			PA16-CAPACITORS						
CD01		4822 124 41539	ELECT 47μF ±20% 16V	OA47601620	C473		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510
CD02		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	C475		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
CD03	F		FILM 680pF ±5% 100V CHIP	OF55681540	C477	F	4822 124 22242	ELECT 470μF 25V	OA47702550
CD03	K/02	4822 121 70319	FILM 470pF ±5% 50V	OF15471030	C477	K/02	4822 124 80958	ELECT 470μF 16V	OA47701640
CD05					C478	F	4822 124 22242	ELECT 470μF 25V	OA47702550
		4822 121 10867	FILM 0.1μF ±5% 100V CHIP	OF55104540	C478	K/02	4822 124 80958	ELECT 470μF 16V	OA47701640
CD18					C602		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
CD19		4822 126 12061	CER. 0.1μF ±10% 25V CHIP	DK56104200	C603		4822 123 30422	MICA 33pF 500WV CHIP	DF95330500
CD20	F	4822 124 22238	ELECT 100μF 25V	OA10702550	C604		4822 124 80123	ELECT 220μF 16V	OA22701640
CD20	K/02	4822 124 80119	ELECT 100μF 25V	OA10702540	C605		4822 124 80123	ELECT 220μF 16V	OA22701640
CD21		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	C606		4822 126 11759	CER. 100pF ±5% 50V CHIP	DD95101300
CD22		4822 124 22238	ELECT 100μF 25V	OA10702550	C611	F	4822 124 22242	ELECT 470μF 25V	OA47702550
CD23		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	C611	K/02	4822 124 80958	ELECT 470μF 16V	OA47701640
CD24		4822 124 22238	ELECT 100μF 25V	OA10702550	C612	F	4822 124 22242	ELECT 470μF 25V	OA47702550
CD27		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500	C612	K/02	4822 124 80958	ELECT 470μF 16V	OA47701640
CD28		4822 126 14578	MICA 1200pF 100WV CHIP	DF95122510	C632		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
CD29		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510	C633		4822 123 30422	MICA 33pF 500WV CHIP	DF95330500
CD37		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500	C634		4822 124 80123	ELECT 220μF 16V	OA22701640
CD38		4822 126 14578	MICA 1200pF 100WV CHIP	DF95122510	C635		4822 124 80123	ELECT 220μF 16V	OA22701640
CD39		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510	C636		4822 126 11759	CER. 100pF ±5% 50V CHIP	DD95101300
CD51		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	C637	F	4822 124 22242	ELECT 470μF 25V	OA47702550
CD53	F		FILM 680pF ±5% 100V CHIP	OF55681540	C637	K/02	4822 124 80958	ELECT 470μF 16V	OA47701640
CD53	K/02	4822 121 70319	FILM 470pF ±5% 50V	OF15471030	C638	F	4822 124 22242	ELECT 470μF 25V	OA47702550
CD55					C638	K/02	4822 124 80958	ELECT 470μF 16V	OA47701640
		4822 121 10867	FILM 0.1μF ±5% 100V CHIP	OF55104540	C702		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
CD68					C703		4822 123 30422	MICA 33pF 500WV CHIP	DF95330500
CD69		4822 126 12061	CER. 0.1μF ±10% 25V CHIP	DK56104200	C704		4822 124 80123	ELECT 220μF 16V	OA22701640
CD70	F	4822 124 22238	ELECT 100μF 25V	OA10702550	C705		4822 124 80123	ELECT 220μF 16V	OA22701640
CD70	K/02	4822 124 80119	ELECT 100μF 25V	OA10702540	C712		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
CD71		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	C713		4822 123 30422	MICA 33pF 500WV CHIP	DF95330500
CD72		4822 124 22238	ELECT 100μF 25V	OA10702550	C714		4822 124 80123	ELECT 220μF 16V	OA22701640
CD73		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	C715		4822 124 80123	ELECT 220μF 16V	OA22701640
CD74		4822 124 22238	ELECT 100μF 25V	OA10702550	C716		4822 126 11759	CER. 100pF ±5% 50V CHIP	DD95101300
CD77		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500	C717		4822 126 11759	CER. 100pF ±5% 50V CHIP	DD95101300
CD78		4822 126 14578	MICA 1200pF 100WV CHIP	DF95122510	C721	F	4822 124 22242	ELECT 470μF 25V	OA47702550
CD79		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510	C721	K/02	4822 124 80958	ELECT 470μF 16V	OA47701640
CD87		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500	C722	F	4822 124 22242	ELECT 470μF 25V	OA47702550
CD88		4822 126 14578	MICA 1200pF 100WV CHIP	DF95122510	C722	K/02	4822 124 80958	ELECT 470μF 16V	OA47701640
CD89		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510	C736		4822 126 11759	CER. 100pF ±5% 50V CHIP	DD95101300
					C737		4822 126 11759	CER. 100pF ±5% 50V CHIP	DD95101300
C401		4822 126 14578	MICA 1200pF 100WV CHIP	DF95122510	C752		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
C402		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510	C753		4822 123 30422	MICA 33pF 500WV CHIP	DF95330500
C403		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510	C754		4822 124 80123	ELECT 220μF 16V	OA22701640
C405		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500	C755		4822 124 80123	ELECT 220μF 16V	OA22701640
C407	F	4822 124 22242	ELECT 470μF 25V	OA47702550	C756	F	4822 124 22242	ELECT 470μF 25V	OA47702550
C407	K/02	4822 124 80958	ELECT 470μF 16V	OA47701640	C756	K/02	4822 124 80958	ELECT 470μF 16V	OA47701640
C408	F	4822 124 22242	ELECT 470μF 25V	OA47702550	C757	F	4822 124 22242	ELECT 470μF 25V	OA47702550
C408	K/02	4822 124 80958	ELECT 470μF 16V	OA47701640	C757	K/02	4822 124 80958	ELECT 470μF 16V	OA47701640
C421		4822 126 14578	MICA 1200pF 100WV CHIP	DF95122510	C772		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500
C422		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510	C773		4822 123 30422	MICA 3pF 500WV CHIP	DF95330500
C423		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510	C774		4822 124 80123	ELECT 220μF 16V	OA22701640
C425		4822 123 30361	MICA 0.1μF +80%-20% CHIP	DF95560500	C775		4822 124 80123	ELECT 220μF 16V	OA22701640
C427	F	4822 124 22242	ELECT 470μF 25V	OA47702550				PA16-RESISTORS	
C427	K/02	4822 124 80958	ELECT 470μF 16V	OA47701640	RD11		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
C428	F	4822 124 22242	ELECT 470μF 25V	OA47702550	RD12		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
C428	K/02	4822 124 80958	ELECT 470μF 16V	OA47701640	RD13		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
C451		4822 126 14578	MICA 1200pF 100WV CHIP	DF95122510	RD14		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
C452		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510	RD15		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
C453		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510	RD16		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
C455		4822 123 30361	MICA 56pF 500WV CHIP	DF95560500	RD17		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
C457	F	4822 124 22242	ELECT 470μF 25V	OA47702550	RD18		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
C457	K/02	4822 124 80958	ELECT 470μF 16V	OA47701640	RD19		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
C458	F	4822 124 22242	ELECT 470μF 25V	OA47702550	RD20			10.0Ω ±1% 1/4W	GM114100G0
C458	K/02	4822 124 80958	ELECT 470μF 16V	OA47701640	RD21			10.0Ω ±1% 1/4W	GM114100G0
C471		4822 126 14578	MICA 1200pF 100WV CHIP	DF95122510	RD22			1.62kΩ ±1% 1/4W	GM11416210
C472		4822 126 14579	MICA 1000pF 100WV CHIP	DF95102510	RD31		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
					RD32		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RD33		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R459		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD34		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110	R460		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
RD35		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R461		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
RD36		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R462		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD37		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110	R463			10.0Ω ±1% 1/4W	GM114100G0
RD38		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110	R464			10.0Ω ±1% 1/4W	GM114100G0
RD39		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R471			1.47kΩ ±1% 1/4W	GM11414710
RD40			10.0Ω ±1% 1/4W	GM114100G0	R472			3.01kΩ ±1% 1/4W	GM11430110
RD41			10.0Ω ±1% 1/4W	GM114100G0	R474		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
RD42			1.62kΩ ±1% 1/4W	GM11416210	R475		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
RD51		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110	R476		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD52		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110	R477		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
RD53		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R478		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD54		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110	R479		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD55		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R480		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
RD56		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R481		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
RD57		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110	R482		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD58		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110	R483			10.0Ω ±1% 1/4W	GM114100G0
RD59		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R484			10.0Ω ±1% 1/4W	GM114100G0
RD60			10.0Ω ±1% 1/4W	GM114100G0	R601		4822 111 90885	2.7kΩ ±1% 1/10W CHIP	NI01272110
RD61			10.0Ω ±1% 1/4W	GM114100G0	R602		4822 116 83253	1.5kΩ ±1% 1/10W CHIP	NI01152110
RD62			1.62kΩ ±1% 1/4W	GM11416210	R603		4822 111 90885	2.7kΩ ±1% 1/10W CHIP	NI01272110
RD81		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110	R604		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
RD82		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110	R605		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
RD83		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R606		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD84		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110	R608		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
RD85		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R609		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD86		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R610		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD87		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110	R611		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
RD88		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110	R612		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
RD89		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R613		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
RD90			10.0Ω ±1% 1/4W	GM114100G0	R614			10.0Ω ±1% 1/4W	GM114100G0
RD91			10.0Ω ±1% 1/4W	GM114100G0	R615			10.0Ω ±1% 1/4W	GM114100G0
RD92			1.62kΩ ±1% 1/2W	GM11416210	R616		4822 116 83253	1.5kΩ ±1% 1/10W CHIP	NI01152110
R401			1.47kΩ ±1% 1/4W	GM11414710	R618		4822 111 20407	100.0Ω ±1% 1/4W	NR01101140
R402			3.01kΩ ±1% 1/4W	GM11430110	R619			10kΩ ±1% 1/4W	GM11410020
R404		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110	R620		4822 111 90896	100kΩ ±5% 1/10W CHIP	NI05104110
R405		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110	R631		4822 111 90885	2.7kΩ ±1% 1/10W CHIP	NI01272110
R406		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R632		4822 116 83253	1.5kΩ ±1% 1/10W CHIP	NI01152110
R407		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110	R633		4822 111 90885	2.7kΩ ±1% 1/10W CHIP	NI01272110
R408		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R634		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R409		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R635		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R410		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110	R636		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R411		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110	R638		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R412		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R639		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R413			10.0Ω ±1% 1/4W	GM114100G0	R640		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R414			10.0Ω ±1% 1/4W	GM114100G0	R641		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
R421			1.47kΩ ±1% 1/4W	GM11414710	R642		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R422			3.01kΩ ±1% 1/4W	GM11430110	R643		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R424		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110	R644			10.0Ω ±1% 1/4W	GM114100G0
R425		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110	R645			10.0Ω ±1% 1/4W	GM114100G0
R426		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R646		4822 116 83253	1.5kΩ ±1% 1/10W CHIP	NI01152110
R427		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110	R648		4822 111 20407	100.0Ω ±1% 1/4W	NR01101140
R428		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R649			10kΩ ±1% 1/4W	GM11410020
R429		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R650		4822 111 90896	100kΩ ±5% 1/10W CHIP	NI05104110
R430		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110	R701		4822 116 83255	3.3kΩ ±1% 1/10W CHIP	NI01332110
R431		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110	R702		4822 116 83253	1.5kΩ ±1% 1/10W CHIP	NI01152110
R432		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R703		4822 116 83255	3.3kΩ ±1% 1/10W CHIP	NI01332110
R433			10.0Ω ±1% 1/4W	GM114100G0	R704		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R434			10.0Ω ±1% 1/4W	GM114100G0	R705		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110
R451			1.47kΩ ±1% 1/4W	GM11414710	R706		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R452			3.01kΩ ±1% 1/4W	GM11430110	R707		4822 116 83255	3.3kΩ ±1% 1/10W CHIP	NI01332110
R454		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110	R708		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110
R455		4822 116 90503	150Ω ±5% 1/10W CHIP	NI05151110	R709		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R456		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R710		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110
R457		4822 116 83352	560 Ω ±5% 1/10W CHIP	NI05561110	R711		4822 116 83229	33kΩ ±1% 1/10W CHIP	NI01333110
R458		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R712		4822 116 83352	560Ω ±5% 1/10W CHIP	NI05561110

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
R713		4822 111 90893	100Ω ±5% 1/10W CHIP	NI05101110	R789			10kΩ ±1% 1/4W	GM11410020
R714			10.0Ω ±1% 1/4W	GM114100G0	R790		4822 111 90896	100kΩ ±5% 1/10W CHIP	NI05104110
R715			10.0Ω ±1% 1/4W	GM114100G0				PA16-SEMICONDUCTORS	
R716	4822 116 83253		1.5kΩ ±1% 1/10W CHIP	NI01152110	DD01		4822 130 80318	ZENER DIODE	HD30681000
R717	4822 116 83229		33kΩ ±1% 1/10W CHIP	NI01333110				RD6.8JB2 MTZJ6.8C	
R718	4822 111 20407		100.0Ω ±1% 1/4W	NR01101140	DD02		4822 130 32362	DIODE 1SS176 MA165	HD20002000
R719			10kΩ ±1% 1/4W	GM11410020				1SS254 30V 0.1A	
R720	4822 111 90896		100kΩ ±5% 1/10W CHIP	NI05104110	DD03		4822 130 81148	CHIP DIODE 1MN10	HZ20007210
R721	4822 116 83255		3.3kΩ ±1% 1/10W CHIP	NI01332110	DD04		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
R722	4822 116 83253		1.5kΩ ±1% 1/10W CHIP	NI01152110	DD13		4822 130 81148	CHIP DIODE 1MN10	HZ20007210
R723	4822 116 83255		3.3kΩ ±1% 1/10W CHIP	NI01332110	DD14		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
R724	4822 116 90503		150Ω ±5% 1/10W CHIP	NI05151110	DD53		4822 130 81148	CHIP DIODE 1MN10	HZ20007210
R725	4822 116 90503		150Ω ±5% 1/10W CHIP	NI05151110	DD54		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
					DD73		4822 130 81148	CHIP DIODE 1MN10	HZ20007210
R726	4822 111 90893		100Ω ±5% 1/10W CHIP	NI05101110	DD74		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
R727	4822 116 83255		3.3kΩ ±1% 1/10W CHIP	NI01332110					
R728	4822 116 83352		560Ω ±5% 1/10W CHIP	NI05561110	D403		4822 130 81148	CHIP DIODE 1MN10	HZ20007210
R729	4822 111 90893		100Ω ±5% 1/10W CHIP	NI05101110	D404		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
R730	4822 111 90893		100Ω ±5% 1/10W CHIP	NI05101110	D413		4822 130 81148	CHIP DIODE 1MN10	HZ20007210
R731	4822 116 83229		33kΩ ±1% 1/10W CHIP	NI01333110	D414		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
R732	4822 116 83352		560Ω ±5% 1/10W CHIP	NI05561110	D453		4822 130 81148	CHIP DIODE 1MN10	HZ20007210
R733	4822 111 90893		100Ω ±5% 1/10W CHIP	NI05101110	D454		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
R734			10.0Ω ±1% 1/4W	GM114100G0	D473		4822 130 81148	CHIP DIODE 1MN10	HZ20007210
R735			10.0Ω ±1% 1/4W	GM114100G0	D474		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
R736	4822 116 83253		1.5kΩ ±1% 1/10W CHIP	NI01152110	D601		4822 130 32362	DIODE 1SS176 MA165	HD20002000
R737	4822 116 83229		33kΩ ±1% 1/10W CHIP	NI01333110				1SS254 30V 0.1A	
R738	4822 111 20407		100.0Ω ±1% 1/4W	NR01101140	D602		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
R739			10kΩ ±1% 1/4W	GM11410020	D603		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
R740	4822 111 90896		100kΩ ±5% 1/10W CHIP	NI05104110	D605		4822 130 32362	DIODE 1SS176 MA165	HD20002000
								1SS254 30V 0.1A	
R751	4822 116 83255		3.3kΩ ±1% 1/10W CHIP	NI01332110	D631		4822 130 32362	DIODE 1SS176 MA165	HD20002000
R752	4822 116 83253		1.5kΩ ±1% 1/10W CHIP	NI01152110				1SS254 30V 0.1A	
R753	4822 116 83255		3.3kΩ ±1% 1/10W CHIP	NI01332110	D632		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
R754	4822 116 90503		150Ω ±5% 1/10W CHIP	NI05151110	D633		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
R755	4822 116 90503		150Ω ±5% 1/10W CHIP	NI05151110	D703		4822 130 81148	CHIP DIODE 1MN10	HZ20007210
R756	4822 111 90893		100Ω ±5% 1/10W CHIP	NI05101110	D704		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
R757	4822 116 83255		3.3kΩ ±1% 1/10W CHIP	NI01332110	D713		4822 130 81148	CHIP DIODE 1MN10	HZ20007210
R758	4822 116 83352		560Ω ±5% 1/10W CHIP	NI05561110	D714		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
R759	4822 111 90893		100Ω ±5% 1/10W CHIP	NI05101110	D753		4822 130 81148	CHIP DIODE 1MN10	HZ20007210
R760	4822 111 90893		100Ω ±5% 1/10W CHIP	NI05101110	D754		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
R761	4822 116 83229		33kΩ ±1% 1/10W CHIP	NI01333110	D773		4822 130 81148	CHIP DIODE 1MN10	HZ20007210
R762	4822 116 83352		560Ω ±5% 1/10W CHIP	NI05561110	D774		4822 130 81324	CHIP DIODE 1SS302	HZ20018050
R763	4822 111 90893		100Ω ±5% 1/10W CHIP	NI05101110					
R764			10.0Ω ±1% 1/4W	GM114100G0	▲ QD01		4822 130 11604	TRS. 2SB1020A	HT21020100
R765			10.0Ω ±1% 1/4W	GM114100G0	QD03		4822 209 17426	IC TDA1541A/N2/S2 16BIT	HC10083490
R766	4822 116 83253		1.5kΩ ±1% 1/10W CHIP	NI01152110	QD04		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
R767	4822 116 83229		33kΩ ±1% 1/10W CHIP	NI01333110	QD05		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
R768	4822 111 20407		100.0Ω ±1% 1/4W	NR01101140	QD06		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
R769			10kΩ ±1% 1/4W	GM11410020	QD07		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
R770	4822 111 90896		100kΩ ±5% 1/10W CHIP	NI05104110	QD08		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0
					QD09		5322 130 41844	F.E.T. 2SK170 V	HF201701H0
R771	4822 116 83255		3.3kΩ ±1% 1/10W CHIP	NI01332110	QD10		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
R772	4822 116 83253		1.5kΩ ±1% 1/10W CHIP	NI01152110	QD14		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
R773	4822 116 83255		3.3kΩ ±1% 1/10W CHIP	NI01332110	QD15		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
R774	4822 116 90503		150Ω ±5% 1/10W CHIP	NI05151110	QD16		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
R775	4822 116 90503		150Ω ±5% 1/10W CHIP	NI05151110	QD17		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
R776	4822 111 90893		100Ω ±5% 1/10W CHIP	NI05101110	QD18		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0
R777	4822 116 83255		3.3kΩ ±1% 1/10W CHIP	NI01332110	QD19		5322 130 41844	F.E.T. 2SK170 V	HF201701H0
R778	4822 116 83352		560Ω ±5% 1/10W CHIP	NI05561110	QD20		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
R779	4822 111 90893		100Ω ±5% 1/10W CHIP	NI05101110	QD21		4822 209 32984	IC TC7SHU04F	HC10427050
R780	4822 111 90893		100Ω ±5% 1/10W CHIP	NI05101110	QD22		4822 209 61494	IC 74HC74 FLAT	HC707400Z0
R781	4822 116 83229		33kΩ ±1% 1/10W CHIP	NI01333110					
R782	4822 116 83352		560Ω ±5% 1/10W CHIP	NI05561110	QD51		4822 209 32984	IC TC7SHU04F	HC10427050
R783	4822 111 90893		100Ω ±5% 1/10W CHIP	NI05101110	QD52		4822 209 61494	IC 74HC74 FLAT	HC707400Z0
R784			10.0Ω ±1% 1/4W	GM114100G0	QD53		4822 209 17426	IC TDA1541A/N2/S2 16BIT	HC10083490
R785			10.0Ω ±1% 1/4W	GM114100G0	QD54		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
R786	4822 116 83253		1.5kΩ ±1% 1/10W CHIP	NI01152110	QD55		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
R787	4822 116 83229		33kΩ ±1% 1/10W CHIP	NI01333110	QD56		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
R788	4822 111 20407		100.0Ω ±1% 1/4W	NR01101140					

(VERS.:VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, /...:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
QD57		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0	Q727		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
QD58		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0	Q751		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
QD59		5322 130 41844	F.E.T. 2SK170 V	HF201701H0	Q752		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
QD60		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0	Q753		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
QD74		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0	Q754		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
QD75		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0	Q755		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0
QD76		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0	Q756		5322 130 41844	F.E.T. 2SK170 V	HF201701H0
QD77		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0	Q757		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
QD78		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0	Q771		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0
QD79		5322 130 41844	F.E.T. 2SK170 V	HF201701H0	Q772		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0
QD80		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0	Q773		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q401		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0	Q774		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0
Q402		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0	Q775		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0
Q403		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0	Q776		5322 130 41844	F.E.T. 2SK170 V	HF201701H0
Q404		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0	Q777		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0
Q405		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0				PA16-MISCELLANEOUS	
Q406		5322 130 41844	F.E.T. 2SK170 V	HF201701H0	J608		4822 290 81602	TERMINAL RCA 1P GLD L	YT02010740
Q407		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0	J609		4822 290 81602	TERMINAL RCA 1P GLD R	YT02010740
Q421		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0					
Q422		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0	L601		4822 280 10353	RELAY DC9V NA-9-WK	LY20090090
Q423		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0	L603		4822 158 60605	FERRITE CORE BEADS	FC90050060
Q424		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0	L633		4822 158 60605	FERRITE CORE BEADS	FC90050060
Q425		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0	L701		4822 280 10353	RELAY DC9V NA-9-WK	LY20090090
Q426		5322 130 41844	F.E.T. 2SK170 V	HF201701H0	L702		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
Q427		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0	L703		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
Q451		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0	L731		4822 280 10353	RELAY DC9V NA-9-WK	LY20090090
Q452		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0	L732		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
Q453		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0	L733		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
Q454		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0				PH16-POWER SW	
Q455		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0				CIRCUIT BOARD	
Q456		5322 130 41844	F.E.T. 2SK170 V	HF201701H0	▲ GH01		4822 121 43732	FILM CAP. 0.01μF ±20% 250V	DF77103500
Q457		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0	▲ SH01		4822 276 13364	PUSH SW. SDDL1 TV-3	SP01011990
Q471		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0	▲ SH02	K	4822 277 21825	SLIDE SW. SDKGA4	SS02021510
Q472		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0				PP16-MAIN/HDAM/MUTE	
Q473		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0				CIRCUIT BOARD	
Q474		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0				PP16-CAPACITORS	
Q475		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0	CN02		4822 124 41543	ELECT 1μF 50V	OA10505020
Q476		5322 130 41844	F.E.T. 2SK170 V	HF201701H0	CN03		4822 124 90357	ELECT 2.2μF 50V	OA22505020
Q477		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0	CN06		4822 124 22277	ELECT 470μF 16V ±20%	OA47701620
Q601		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0	CN13		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
Q603		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0	CN21		4822 126 11567	CER. 0.022μF ±10% CHIP	DK96223200
Q604		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0	CN22		4822 124 22273	ELECT 0.47μF ±20% 50V	OA47405020
Q605		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0	CN23		4822 124 22274	ELECT 4.7 μF ±20% 50V	OA47505020
Q606		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0					
Q607		5322 130 41844	F.E.T. 2SK170 V	HF201701H0	CT01		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
Q608		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0	CT02		4822 126 11685	CER. 4700pF ±10% 50V CHIP	DK96472300
Q631		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0	CT03		4822 126 12339	CER. 2200pF ±10% CHIP	DK96222300
Q633		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0	CT04		4822 126 13837	CER. 0.1 μF ±10% 10V CHIP	DK96104200
Q634		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0	CT05		4822 126 13837	CER. 0.1 μF ±10% 10V CHIP	DK96104200
Q635		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0	CT06		4822 126 11685	CER. 4700pF ±10% 50V CHIP	DK96472300
Q636		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0	CT07		4822 126 12339	CER. 2200pF ±10% CHIP	DK96222300
Q637		5322 130 41844	F.E.T. 2SK170 V	HF201701H0	CT08		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
Q638		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0	CT09		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
Q701		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0	CT10		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
Q702		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0					
Q703		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0	CY60		4822 122 40588	CER. 0.022μF ±10% 50V	DA17223110
Q704		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0	CY61		4822 122 40588	CER. 0.022μF ±10% 50V	DA17223110
Q705		4822 130 63929	CHIP TR. 2SC3324 B	HX333241B0	CY62		4822 124 90355	ELECT 100 μF ±20% 50V	OA10705020
Q706		5322 130 41844	F.E.T. 2SK170 V	HF201701H0	CY63		4822 124 41536	ELECT 100 μF ±20% 35V	OA10703520
Q707		4822 130 62649	F.E.T. 2SJ74 V	HF100741H0					
Q721		4822 130 42843	F.E.T. 2SK389 GR BL	HF203892A0					
Q722		4822 130 61425	CHIP TRS. 2SC2873 Y	HX328731B0	C301		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
Q723		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0	C302		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
Q724		4822 130 63928	CHIP TRS. 2SA1312 B	HX113121B0	C303		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
Q725		4822 130 63929	CHIP TRS. 2SC3324 B	HX333241B0	C304		4822 124 90363	ELECT 220 μF ±20% 10V	OA22701020
Q726		5322 130 41844	F.E.T. 2SK170 V	HF201701H0	C305		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJJ)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJJ)
C309		4822 124 41539	ELECT 47 μ F $\pm$ 20% 16V	OA47601620				PP16-RESISTORS CHIP	
C310		5322 126 11578	CER. 1000pF $\pm$ 10% 50V CHIP	DK96102300	C321		4822 116 82487	0 Ω $\pm$ 5% 1/16W	NN05000610
C311		4822 126 11759	CER. 100pF $\pm$ 5% 50V CHIP	DD95101300	C355		4822 116 82487	0 Ω $\pm$ 5% 1/16W	NN05000610
C312		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200					
C314		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	RN02		4822 117 11977	3.9M Ω $\pm$ 5% 1/16W	NN05395610
C315		4822 126 13309	CER. 0.033 μ F $\pm$ 10% CHIP	DK96333200	RN03		4822 116 83208	18k Ω $\pm$ 5% 1/16W	NN05123610
C316		4822 124 81238	TANTL. 0.33 μ F 35V CHIP	EY33403510	RN04		4822 051 30473	47k Ω $\pm$ 5% 1/16W	NN05473610
C317		4822 124 90357	ELECT 2.2 μ F $\pm$ 20% 50V	OA22505020	RN05		4822 051 30103	10k Ω $\pm$ 5% 1/16W	NN05103610
C318		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	RN08		4822 051 30472	4.7k Ω $\pm$ 5% 1/16W	NN05472610
C319		4822 126 13837	CER. 0.1 μ F $\pm$ 10% 10V CHIP	DK96104200	RN10		4822 051 30472	4.7k Ω $\pm$ 5% 1/16W	NN05472610
C320		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	RN13		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610
C327		4822 124 90363	ELECT 220 μ F $\pm$ 20% 10V	OA22701020	RN14		4822 051 30103	10k Ω $\pm$ 5% 1/16W	NN05103610
C328		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	RN15		4822 051 30472	4.7k Ω $\pm$ 5% 1/16W	NN05472610
C329		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	RN16		4822 051 30472	4.7k Ω $\pm$ 5% 1/16W	NN05472610
C330		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	RN21		4822 051 30103	10k Ω $\pm$ 5% 1/16W	NN05103610
C331		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	RN22		4822 051 30104	100k Ω $\pm$ 5% 1/16W	NN05104610
C332		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	RN23		4822 051 30332	3.3k Ω $\pm$ 5% 1/16W	NN05332610
C333		4822 126 11759	CER. 100pF $\pm$ 5% 50V CHIP	DD95101300	RN24		4822 051 30473	47k Ω $\pm$ 5% 1/16W	NN05473610
C334		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	RN25		4822 051 30333	33k Ω $\pm$ 5% 1/16W	NN05333610
C356		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	RN26		4822 051 30104	100k Ω $\pm$ 5% 1/16W	NN05104610
C357		4822 126 11663	CER. 12pF $\pm$ 5% 50V CHIP	DD95120300	RN27		4822 051 30332	3.3k Ω $\pm$ 5% 1/16W	NN05332610
C358		4822 126 11663	CER. 12pF $\pm$ 5% 50V CHIP	DD95120300					
C359		5322 126 11578	CER. 1000pF $\pm$ 10% 50V CHIP	DK96102300	RT01		4822 051 30101	100 Ω $\pm$ 5% 1/16W	NN05101610
C360		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	RT02		4822 051 30339	33 Ω $\pm$ 5% 1/16W	NN05330610
C361		4822 126 11663	CER. 12pF $\pm$ 5% 50V CHIP	DD95120300	RT03		4822 051 30759	75 Ω $\pm$ 5% 1/16W	NN05750610
C362		4822 126 11663	CER. 12pF $\pm$ 5% 50V CHIP	DD95120300	RT04		4822 051 30339	33 Ω $\pm$ 5% 1/16W	NN05330610
C363		5322 126 11578	CER. 1000pF $\pm$ 10% 50V CHIP	DK96102300	RT05		4822 051 30759	75 Ω $\pm$ 5% 1/16W	NN05750610
C364					RY41		4822 051 30103	10k Ω $\pm$ 5% 1/16W	NN05103610
}		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	RY42		4822 051 30103	10k Ω $\pm$ 5% 1/16W	NN05103610
C372					RY51		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610
C501					RY52		4822 051 30472	4.7k Ω $\pm$ 5% 1/16W	NN05472610
}		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	RY53		4822 051 30473	47k Ω $\pm$ 5% 1/16W	NN05473610
C504					RY54		4822 051 30473	47k Ω $\pm$ 5% 1/16W	NN05473610
C505		4822 124 90363	ELECT 220 μ F $\pm$ 20% 10V	OA22701020	RY55		4822 051 30473	47k Ω $\pm$ 5% 1/16W	NN05473610
C506		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	RY56		4822 051 30103	10k Ω $\pm$ 5% 1/16W	NN05103610
C507		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	RY61		4822 116 83255	3.3k Ω $\pm$ 1% 1/10W	NI01332110
C509		5322 126 11578	CER. 1000pF $\pm$ 10% 50V CHIP	DK96102300					
C510		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	R301		4822 051 30759	75 Ω $\pm$ 5% 1/16W	NN05750610
C511		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	R302		4822 051 30759	75 Ω $\pm$ 5% 1/16W	NN05750610
C512		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	R303		4822 051 30102	1k Ω $\pm$ 5% 1/16W	NN05102610
C514		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	R305		4822 051 30473	47k Ω $\pm$ 5% 1/16W	NN05473610
C515		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	R307		4822 051 30222	2.2k Ω $\pm$ 5% 1/16W	NN05222610
C516		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	R308		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610
C518		5322 126 11578	CER. 1000pF $\pm$ 10% 50V CHIP	DK96102300	R309		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610
C519		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	R310		4822 051 30103	10k Ω $\pm$ 5% 1/16W	NN05103610
C520		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	R311		4822 051 30471	470 Ω $\pm$ 5% 1/16W	NN05471610
C521		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	R314		4822 051 30101	100 Ω $\pm$ 5% 1/16W	NN05101610
C528		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	R315		4822 051 30472	4.7k Ω $\pm$ 5% 1/16W	NN05472610
C529		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200	R316		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610
					R317		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610
C801		4822 124 80582	ELECT 4700 μ F $\pm$ 20% 16V	OA47801620	R318		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610
C802		4822 124 22694	ELECT 1000 μ F 6.3V	OA10800620	R319		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610
C803		4822 124 90388	ELECT 3300 μ F $\pm$ 20% 16V	OA33801620	R320		4822 051 30479	47 Ω $\pm$ 5% 1/16W	NN05470610
C804		4822 124 90367	ELECT 2200 μ F 25V	OA22802520					
C812		4822 124 90367	ELECT 2200 μ F $\pm$ 20% 25V	OA22802520	R321		4822 051 30479	47 Ω $\pm$ 5% 1/16W	NN05470610
C813	F	4822 124 22238	ELECT 100 μ F $\pm$ 20% 25V	OA10702550	R322		4822 051 30479	47 Ω $\pm$ 5% 1/16W	NN05470610
C813	K /02	4822 124 80119	ELECT 100 μ F $\pm$ 20% 25V	OA10702540	R323		4822 051 30479	47 Ω $\pm$ 5% 1/16W	NN05470610
C814	F	4822 124 22238	ELECT 100 μ F $\pm$ 20% 25V	OA10702550	R324		4822 051 30101	100 Ω $\pm$ 5% 1/16W	NN05101610
C814	K /02	4822 124 80119	ELECT 100 μ F $\pm$ 20% 25V	OA10702540	R325		4822 051 30101	100 Ω $\pm$ 5% 1/16W	NN05101610
C822		4822 124 90388	ELECT 3300 μ F $\pm$ 20% 16V	OA33801620	R326		4822 051 30101	100 Ω $\pm$ 5% 1/16W	NN05101610
C823		4822 124 90364	ELECT 220 μ F $\pm$ 20% 16V	OA22701620	R327		4822 051 30101	100 Ω $\pm$ 5% 1/16W	NN05101610
C851		4822 124 12405	ELECT 4700 μ F $\pm$ 20% 35V	OB47803520	R330		4822 051 30103	10k Ω $\pm$ 5% 1/16W	NN05103610
C852		4822 124 12405	ELECT 4700 μ F $\pm$ 20% 35V	OB47803520	R331		4822 051 30334	330k Ω $\pm$ 5% 1/16W	NN05334610
C855	F	4822 124 22238	ELECT 100 μ F $\pm$ 20% 25V	OA10702550	R332		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610
C855	K /02	4822 124 80119	ELECT 100 μ F $\pm$ 20% 25V	OA10702540	R333		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610
C856	F	4822 124 22238	ELECT 100 μ F $\pm$ 20% 25V	OA10702550	R334		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610
C856	K /02	4822 124 80119	ELECT 100 μ F $\pm$ 20% 25V	OA10702540	R335		4822 051 30471	470 Ω $\pm$ 5% 1/16W	NN05471610
C857		4822 124 22242	ELECT 470 μ F $\pm$ 20% 25V	OA47702550	R336		4822 051 30471	470 Ω $\pm$ 5% 1/16W	NN05471610
C858		4822 124 22242	ELECT 470 μ F $\pm$ 20% 25V	OA47702550	R338		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
R339		4822 051 30223	22kΩ ±5% 1/16W	NN05223610	D301		4822 130 83715	CHIP DIODE DAN202U	HZ21005000
R340		4822 051 30223	22kΩ ±5% 1/16W	NN05223610	▲ D801				
R341		4822 051 30334	330kΩ ±5% 1/16W	NN05334610	}		4822 130 80839	DIODE S5688G 1A VRM=400V	HD20029050
R342		4822 117 12968	820Ω ±5% 1/16W	NN05821610	▲ D808				
R343		4822 051 30101	100Ω ±5% 1/16W	NN05101610	▲ D811				
R344		4822 051 30334	330kΩ ±5% 1/16W	NN05334610	}		4822 130 80839	DIODE S5688G 1A VRM=400V	HD20029050
R345		4822 117 12968	820Ω ±5% 1/16W	NN05821610	▲ D814				
R346		4822 051 30101	100Ω ±5% 1/16W	NN05101610	D815		4822 130 80318	ZENER DIODE RD6.8JB2 MTZJ6.8C	HD30681000
R348		4822 051 30101	100Ω ±5% 1/16W	NN05101610					
R349		4822 051 30101	100Ω ±5% 1/16W	NN05101610	▲ D821				
R350		4822 051 30479	47Ω ±5% 1/16W	NN05470610	}		4822 130 80839	DIODE S5688G 1A VRM=400V	HD20029050
R351		4822 051 30479	47Ω ±5% 1/16W	NN05470610	▲ D824				
					▲ D851				
					}		4822 130 82422	DIODE EK16LF VRM60V	HD20041080
R501		4822 051 30223	22kΩ ±5% 1/16W	NN05223610	▲ D854				
R502		4822 051 30223	22kΩ ±5% 1/16W	NN05223610	D856		4822 130 33948	ZENER DIODE RD5.6JB2 MTZJ5.6B	HD30561000
R503		4822 051 30223	22kΩ ±5% 1/16W	NN05223610					
R504		4822 051 30223	22kΩ ±5% 1/16W	NN05223610	D857		4822 130 33948	ZENER DIODE RD5.6JB2 MTZJ5.6B	HD30561000
R505		4822 051 30223	22kΩ ±5% 1/16W	NN05223610					
R506		4822 051 30103	10kΩ ±5% 1/16W	NN05103610					
R507		4822 051 30104	100kΩ ±5% 1/16W	NN05104610					
R508		4822 051 30104	100kΩ ±5% 1/16W	NN05104610	QN01		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
R509		4822 051 30104	100kΩ ±5% 1/16W	NN05104610	QN02		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
R510		4822 051 30104	100kΩ ±5% 1/16W	NN05104610	QN03		4822 130 11507	DIG.TRS. UMH4N	BA20070210
R511		4822 051 30104	100kΩ ±5% 1/16W	NN05104610	QN04		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
R512		4822 051 30223	22kΩ ±5% 1/16W	NN05223610	QN05		4822 130 61311	CHIP TRS. 2SA1162 O Y	HX111622A0
R513		4822 051 30103	10kΩ ±5% 1/16W	NN05103610	QN13		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
R514		4822 051 30104	100kΩ ±5% 1/16W	NN05104610	QN21		4822 209 83312	IC TA7317P	HC10042050
R515		4822 051 30104	100kΩ ±5% 1/16W	NN05104610					
R516		4822 051 30104	100kΩ ±5% 1/16W	NN05104610	QT01		4822 209 31423	IC TC7W04F	HC700405W0
R517		4822 051 30104	100kΩ ±5% 1/16W	NN05104610	QY11		4822 111 92195	DIG.TRS. HN1A01F Y GR	BA10011050
R518		4822 051 30104	100kΩ ±5% 1/16W	NN05104610	QY12		4822 130 60839	TRS. 2SC2458 Y GR	HT324582B0
R520		4822 051 30103	10kΩ ±5% 1/16W	NN05103610	QY41		4822 130 63844	DIG.TRS. HN1C03FPN×2	BA20016050
R527		4822 116 82487	0Ω ±5% 1/16W	NN05000610	QY51		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
R529		4822 051 30103	10kΩ ±5% 1/16W	NN05103610	▲ QY61		4822 130 42734	CHIP TRS. 2SB798 DL DK	HX207982A0
R530		4822 051 30471	470Ω ±5% 1/16W	NN05471610					
R531		4822 051 30471	470Ω ±5% 1/16W	NN05471610	Q301		4822 209 32984	IC TC7SHU04F	HC10427050
R532		4822 051 30471	470Ω ±5% 1/16W	NN05471610	Q302		4822 209 90597	IC TCW125FU	HC10409050
R861	/02		390Ω ±5% 2W NON CHIP	GA05391020	Q303		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
R862	/02		390Ω ±5% 2W NON CHIP	GA05391020	Q304		4822 209 33578	IC TDA1315	HC10117490
					Q305		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
					Q306		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
					Q308		4822 130 61311	CHIP TRS. 2SA1162 O Y	HX111622A0
					Q309		4822 209 17427	IC SM5844AF	HC10013350
					Q311		4822 209 61494	IC 74HC74 FLAT	HC707400Z0
					Q312		4822 209 31423	IC TC7W04F	HC700405W0
					Q313		4822 209 33581	IC TC7W08F	HC10392050
					Q314		4822 209 90597	IC TCW125FU	HC10409050
					Q315		4822 209 17428	IC 74HC165 FLAT	HC716500R0
					Q316		4822 209 30426	IC 74HC00 FLAT	HC700000Z0
					Q317		4822 209 15997	IC TC74HC393AF	HC739305R0
					Q318		4822 209 17429	IC 74HC107 FLAT	HC710700R0
					Q319		4822 209 61494	IC 74HC74 FLAT	HC707400Z0
					Q320		4822 209 62764	IC 74HC164 FLAT	HC716400Z0
					Q321		4822 209 15997	IC TC74HC393AF COUNTER	HC739305R0
					Q322		4822 209 32984	IC TC7SHU04F	HC10427050
					Q323		4822 209 32984	IC TC7SHU04F	HC10427050
					Q324		4822 209 90597	IC TCW125FU	HC10409050
					Q325		4822 209 32984	IC TC7SHU04F	HC10427050
					Q326		4822 209 91176	IC 74HC257AF	HC725705R0
					Q327		4822 209 90597	IC TCW125FU	HC10409050
					Q328		4822 209 17431	IC 74HC393 FLAT	HC739300R0
					Q329		4822 130 61311	CHIP TRS. 2SA1162 O Y	HX111622A0
					Q330		4822 209 61494	IC 74HC74 FLAT	HC707400Z0
					Q331		4822 209 32984	IC TC7SHU04F	HC10427050
					Q332		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
					Q333		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
					Q501		4822 209 17432	IC 74HC595	HC759500R0
					Q502		4822 209 17432	IC 74HC595	HC759500R0

(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, /::EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
Q503		4822 209 17432	IC 74HC595	HC759500R0	S301		4822 277 21559	SLIDE SW. COAX OPT SEL	SS02021150
Q504		4822 209 30426	IC CMOS 74HC00	HC700000Z0	S302		4822 277 21559	SLIDE SW. INPUT FORMAT	SS02021150
Q505		4822 130 11507	DIG.TRS. UMH4N	BA20070210					
Q506	F	4822 209 17433	EPROM/EEPROM	HJ355KZ200	X301		4822 242 10818	CRYSTAL 33.8688MHz	JX33001380
			256K BYT PKG.355K506N1		X302		4822 242 11032	CRYSTAL 36.864MHz	JX36001380
Q507		4822 209 17434	IC DSP56004	HC10103170					
Q508	F		EPROM/EEPROM	HJ355KZ100					
			512 BYT PRG.355K508-1						
Q508	K /02	4822 209 17435	EPROM/EEPROM	HJ355KZ300					
			512K BYT PRG.355K508N1						
Q509		4822 209 17434	IC DSP56004	HC10103170	CF02		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
Q510		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0	CF05		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
Q512		4822 209 31423	IC TC7W04F	HC700405W0	CF06		4822 124 41539	ELECT 47μF ±20% 16V	OA47601620
Q513		4822 209 33581	IC TC7W08F	HC10392050	CF07		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
Q520		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0	CF11		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
▲ Q801		4822 209 17436	IC BA05T 5V/1A TO220	HC36905210	CF12		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
▲ Q802		4822 209 17436	IC BA05T 5V/1A TO220	HC36905210	CF13		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
Q811		4822 130 42836	F.E.T. 2SK246 GR	HF202461C0	CF15		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
Q812		4822 130 42949	TRS. 2SA970 GR BL	HT109702A0	CF16		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
▲ Q813		4822 130 10176	F.E.T. 2SJ313 O Y	HF10313100	CM01				
▲ Q821		4822 209 17437	IC PQ09RF1	HC31909320	CM04		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
Q851		4822 130 42836	F.E.T. 2SK246 GR	HF202461C0					
▲ Q852		4822 130 11605	TRS. 2SD1415A	HT41415100	C100				
Q853		4822 130 43233	TRS. 2SC2240 GR BL	HT322402A0					
Q855		4822 130 42836	F.E.T. 2SK246 GR	HF202461C0			4822 126 11682	CER. 220pF ±10% CHIP	DK96221300
▲ Q856		4822 130 11604	TRS. 2SB1020A	HT21020100	C105				
Q857		4822 130 42949	TRS. 2SA970 GR BL	HT109702A0	C106		4822 126 13837	CER. 0.1 μF ±10% 10V CHIP	DK96104200
					C108		4822 122 33777	CER. 47pF ±5% 50V CHIP	DD95470300
					C109		4822 126 11567	CER. 0.022μF ±10% 16V CHIP	DK96223200
▲ F801	F		PP16-MISCELLANEOUS		C110		4822 126 12495	CER. 1500pF ±10% CHIP	DK96152300
▲ F801	K /02	4822 070 31002	FUSE 1.6A 250V UL	FS10160350	C111		4822 126 14249	CER. 560pF ±10% CHIP	DK96561300
▲ F811	F		FUSE 1A 250V BS LISTED	FS10100850	C112		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
▲ F811	K /02	4822 070 38001	FUSE 800MA 250V BS LISTED	FS10080850	C113		4822 126 11759	CER. 100pF ±5% 50V CHIP	DD95101300
▲ F821	F		FUSE 1A 250V UL	FS10100350	C119		4822 126 11567	CER. 0.022μF ±10% 16V CHIP	DK96223200
▲ F821	K /02	4822 070 38001	FUSE 800MA 250V BS LISTED	FS10080850	C132		4822 126 14581	CER. 0.015μF ±10% 16V CHIP	DK96153200
▲ F851	F		FUSE 1A 250V UL	FS10100350	C133		4822 126 11695	CER. 330pF ±5% 50V CHIP	DD95331300
▲ F851	K /02	4822 070 38001	FUSE 800MA 250V BS LISTED	FS10080850	C134		4822 126 11563	CER. 180pF ±5% CHIP	DD95181300
▲ F852	F		FUSE 1A 250V UL	FS10100350	C135		4822 126 11567	CER. 0.022μF ±10% 16V CHIP	DK96223200
▲ F852	K /02	4822 070 38001	FUSE 800MA 250V BS LISTED	FS10080850	C136		4822 124 41539	ELECT 47μF ±20% 16V	OA47601620
					C139		4822 124 11131	ELECT 47μF 6.3V CHIP	EY47600620
▲ G801		4822 121 20263	NOISE KILLER 0.47μF+6.8Ω	BF47400010	C140				
G810	F	4822 121 20263	NOISE KILLER 0.47μF+6.8Ω	BF47400010			4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
▲ G850		4822 121 20263	NOISE KILLER 0.47μF+6.8Ω	BF47400010	C145				
					C146		4822 124 11131	ELECT 47μF 6.3V CHIP	EY47600620
JT01		4822 265 11582	TERMINAL 1P RCA PIN JACK	YT02011000	C147		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
JT02		4822 265 11582	TERMINAL 1P RCA PIN JACK	YT02011000	C148		4822 124 22694	ELECT 1000μF ±20% 6.3V	OA10800620
JT03		4822 267 31369	OPT. CONNECTOR GP1F32T	YJ15000090	C149		4822 124 41539	ELECT 47 μF ±20% 16V	OA47601620
			OPTICAL OUT		C151		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
J301		4822 265 11582	TERMINAL 1P RCA PIN JACK	YT02011000	C152		4822 124 41539	ELECT 47 μF ±20% 16V	OA47601620
J302		4822 265 11582	TERMINAL 1P RCA PIN JACK	YT02011000	C153		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
J303		4822 218 11487	OPT. CONNECTOR GP1F32R	YJ15000150	C154		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
			OPTICAL RECEIVER		C155		4822 124 22277	ELECT 470μF ±20% 16V	OA47701620
LT01		4822 142 60422	PULSE TRANSF.	TP41042030	C156		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
			TPS247MN-0386AN		C165		4822 122 33788	CER. 82pF±5% CHIP	DD95820300
LT02		4822 142 60422	PULSE TRANSF.	TP41042030	C166		4822 126 12495	CER. 1500pF ±10% CHIP	DK96152300
			TPS247MN-0386AN		C221		4822 126 13267	CER. 330pF ±10% CHIP	DK96331300
LT04		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070	C222		4822 126 12846	CER. 0.012μF ±10% CHIP	DK96123200
LY51		4822 280 10353	RELAY DC9V NA-9-WK	LY20090090	C223		4822 126 11568	CER. 470pF ±10% CHIP	DK96471300
					C224		4822 126 11685	CER. 4700pF ±10% 50V CHIP	DK96472300
L301		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070	C225		4822 126 13837	CER. 0.1μF ±10% 10V CHIP	DK96104200
L302		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070	C226		5322 126 11578	CER. 1000pF ±10% 50V CHIP	DK96102300
L304		4822 157 11192	CHIP INDUCTANCE 3.3 UH	LU12332010	C227		4822 126 13837	CER. 0.1 μF ±10% 10V CHIP	DK96104200
			NL322522		C228		4822 126 13837	CER. 0.1 μF ±10% 10V CHIP	DK96104200
L305		4822 157 11192	CHIP INDUCTANCE 3.3 UH	LU12332010	C229		5322 126 11578	CER. 1000pF ±10% 50V CHIP	DK96102300
			NL322522						
L306		4822 158 60654	FERRITE CORE BLM31A02	FC90030070					
			CHIP INDUCTOR						
					RF09		4822 051 30105	PV16-RESISTORS CHIP 1MΩ ±5% 1/16W	NN05105610
					RF10		4822 051 30474	470kΩ ±5% 1/16W	NN05474610
					RF11		4822 051 30223	22kΩ ±5% 1/16W	NN05223610

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RF14 }		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610	R166		4822 051 30332	3.3k Ω $\pm$ 5% 1/16W	NN05332610
RF17 }		4822 051 30472	4.7k Ω $\pm$ 5% 1/16W	NN05472610	QF01		4822 209 17438	PV16-SEMICONDUCTORS ONE TIME PROM	HS355KN000
RF21		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610	QF02		4822 209 15921	μ PD78P078 1-TIME μ -COM	HC10077530
RF22		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610	QF03		4822 209 17428	IC ET S-806D-Z	HC716500R0
RF23		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610	QF04		4822 209 17428	IC 74HC165 FLAT	HC716500R0
RF25		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610	QF05		4822 209 17428	IC 74HC165 FLAT	HC716500R0
RF35		4822 051 30472	4.7k Ω $\pm$ 5% 1/16W	NN05472610	QF06		4822 209 17432	IC 74HC595	HC759500R0
RM01		4822 051 30472	4.7k Ω $\pm$ 5% 1/16W	NN05472610	QF07		4822 209 62764	IC 74HC164F	HC716400Z0
RM02		4822 051 30472	4.7k Ω $\pm$ 5% 1/16W	NN05472610	QF08		4822 209 32984	IC TC7SHU04F	HC10427050
RM03		4822 051 30222	2.2k Ω $\pm$ 5% 1/16W	NN05222610	QF09		4822 209 90597	IC TCW125FU	HC10409050
RM04		4822 051 30222	2.2k Ω $\pm$ 5% 1/16W	NN05222610	QM01		4822 130 43954	CHIP TRS. 2SD999 DL DK	HX409992A0
RM05		4822 051 30472	4.7k Ω $\pm$ 5% 1/16W	NN05472610	QM02		4822 130 43954	CHIP TRS. 2SD999 DL DK	HX409992A0
RM06		4822 051 30472	4.7k Ω $\pm$ 5% 1/16W	NN05472610	QM03		4822 130 42734	CHIP TRS. 2SB798 DL DK	HX207982A0
RM07		4822 051 30222	2.2k Ω $\pm$ 5% 1/16W	NN05222610	QM04		4822 130 42734	CHIP TRS. 2SB798 DL DK	HX207982A0
RM08		4822 051 30222	2.2k Ω $\pm$ 5% 1/16W	NN05222610	QM05		4822 130 43954	CHIP TRS. 2SD999 DL DK	HX409992A0
R100		4822 051 30103	10k Ω $\pm$ 5% 1/16W	NN05103610	QM06		4822 130 43954	CHIP TRS. 2SD999 DL DK	HX409992A0
R101		4822 051 30103	10k Ω $\pm$ 5% 1/16W	NN05103610	QM07		4822 130 42734	CHIP TRS. 2SB798 DL DK	HX207982A0
R102		4822 051 30274	270k Ω $\pm$ 5% 1/16W	NN05274610	QM08		4822 130 42734	CHIP TRS. 2SB798 DL DK	HX207982A0
R103		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610	QM09		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
R104		4822 116 82487	0 Ω $\pm$ 5% 1/16W	NN05000610	QM12				
R105		4822 051 30104	100k Ω $\pm$ 5% 1/16W	NN05104610	Q102		4822 209 91174	IC SAA7372GP	HC10132490
R106		4822 116 83208	12k Ω $\pm$ 5% 1/16W	NN05123610	Q103		4822 209 16372	IC TDA7073AT	HC10165490
R107		4822 116 83208	12k Ω $\pm$ 5% 1/16W	NN05123610	Q104		4822 209 16372	IC TDA7073AT	HC10165490
R109		4822 051 30681	680 Ω $\pm$ 5% 1/16W	NN05681610	Q107		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
R110		4822 116 83208	12k Ω $\pm$ 5% 1/16W	NN05123610	Q108		4822 130 61311	CHIP TRS. 2SA1162 O Y	HX111622A0
R111		4822 051 30103	10k Ω $\pm$ 5% 1/16W	NN05103610	Q109		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
R113		4822 116 83207	1.2k Ω $\pm$ 5% 1/16W	NN05122610	Q110		4822 130 61311	CHIP TRS. 2SA1162 O Y	HX111622A0
R116		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610	Q111		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
R117		4822 117 12968	820 Ω $\pm$ 5% 1/16W	NN05821610	Q112		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
R119		4822 051 30333	33k Ω $\pm$ 5% 1/16W	NN05333610				PV16-MISCELLANEOUS	
R120		4822 051 30333	33k Ω $\pm$ 5% 1/16W	NN05333610	L103		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
R121		4822 116 83211	1.8k Ω $\pm$ 5% 1/16W	NN05182610	L106				
R123		4822 116 83213	270 Ω $\pm$ 5% 1/16W	NN05271610	XF01		4822 242 10992	CERAMIC RESONATOR CSTCC5.00MG-TC 5MHz	FQ05004040
R124		4822 116 83213	270 Ω $\pm$ 5% 1/16W	NN05271610				PY16-FRONT FL/IR/KEY CIRCUIT BOARD	
R125		4822 051 30103	10k Ω $\pm$ 5% 1/16W	NN05103610				PY16-CAPACITORS	
R128		4822 051 30101	100 Ω $\pm$ 5% 1/16W	NN05101610	CY16		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200
R129		4822 051 30392	3.9k Ω $\pm$ 5% 1/16W	NN05392610	CY17		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200
R133		4822 051 30472	4.7k Ω $\pm$ 5% 1/16W	NN05472610	CY20		4822 124 21901	ELECT 47 μ F 6.3V	EJ47600610
R134		4822 051 30471	470 Ω $\pm$ 5% 1/16W	NN05471610	CY51		4822 126 11687	CER. 0.1 μ F +80%-20% CHIP	DK98104200
R135		4822 051 30471	470 Ω $\pm$ 5% 1/16W	NN05471610				PY16-RESISTORS CHIP	
R136		4822 051 30272	2.7k Ω $\pm$ 5% 1/16W	NN05272610	RY01		4822 051 30472	4.7k Ω $\pm$ 5% 1/16W	NN05472610
R137		4822 051 30272	2.7k Ω $\pm$ 5% 1/16W	NN05272610	RY03		4822 051 30222	2.2k Ω $\pm$ 5% 1/16W	NN05222610
R138		4822 051 30103	10k Ω $\pm$ 5% 1/16W	NN05103610	RY04		4822 051 30222	2.2k Ω $\pm$ 5% 1/16W	NN05222610
R139		4822 116 83339	56 Ω $\pm$ 5% 1/16W	NN05560610	RY05		4822 051 30682	6.8k Ω $\pm$ 5% 1/16W	NN05682610
R140		4822 051 30479	47 Ω $\pm$ 5% 1/16W	NN05470610	RY06		4822 051 30472	4.7k Ω $\pm$ 5% 1/16W	NN05472610
R141		4822 051 30391	390 Ω $\pm$ 5% 1/16W	NN05391610	RY07		4822 051 30222	2.2k Ω $\pm$ 5% 1/16W	NN05222610
R142		4822 116 60309	2.2 Ω $\pm$ 5% 1/4W FUSIBLE	NH05022140	RY08		4822 051 30222	2.2k Ω $\pm$ 5% 1/16W	NN05222610
▲ R143		4822 051 30102	1k Ω $\pm$ 5% 1/16W	NN05102610	RY09		4822 051 30682	6.8k Ω $\pm$ 5% 1/16W	NN05682610
R144		4822 051 30222	2.2k Ω $\pm$ 5% 1/16W	NN05222610	RY10		4822 051 30472	4.7k Ω $\pm$ 5% 1/16W	NN05472610
R145		4822 051 30103	10k Ω $\pm$ 5% 1/16W	NN05103610				PY16-MISCELLANEOUS	
R146		4822 051 30472	4.7k Ω $\pm$ 5% 1/16W	NN05472610	SY01		4822 276 13537	PUSH SW. SKHVBF 260GF	SP01012030
R147		4822 116 60309	2.2 Ω $\pm$ 5% 1/4W FUSIBLE	NH05022140	SY06				
▲ R148		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610					
R151		4822 051 30104	100k Ω $\pm$ 5% 1/16W	NN05104610					
R157		4822 051 30104	100k Ω $\pm$ 5% 1/16W	NN05104610					
R158		4822 051 30101	100 Ω $\pm$ 5% 1/16W	NN05101610					
R160		4822 051 30223	22k Ω $\pm$ 5% 1/16W	NN05223610					
R161									
R164									
R165									

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POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			PY26-FRONT TACT SW CIRCUIT BOARD	
			PY26-CAPACITORS	
CY12		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
CY13		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
CY14		4822 126 12061	CER. 0.1μF±10% 25V CHIP	DK56104200
CY15		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
CY21		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
CY22		4822 126 10935	ELECT 100μF 6.3V	EJ10700610
			RESISTORS CHIP	
RY11		4822 051 30222	2.2kΩ ±5% 1/16W	NN05222610
RY12		4822 051 30222	2.2kΩ ±5% 1/16W	NN05222610
RY13		4822 051 30682	6.8kΩ ±5% 1/16W	NN05682610
RY14				
}		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
RY17				
RY18		4822 051 30563	56kΩ ±5% 1/16W	NN05563610
RY19		4822 051 30473	47kΩ ±5% 1/16W	NN05473610
RY20		4822 051 30104	100kΩ ±5% 1/16W	NN05104610
RY21		4822 051 30101	100Ω ±5% 1/16W	NN05101610
RY22		4822 051 30101	100Ω ±5% 1/16W	NN05101610
RY23		4822 051 30101	100Ω ±5% 1/16W	NN05101610
RY24		4822 051 30223	22kΩ ±5% 1/16W	NN05223610
RY25		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
RY26		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
RY27		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
RY29		4822 051 30103	10kΩ ±5% 1/16W	NN05103610
RY31				
}		4822 051 30221	220Ω ±5% 1/16W	NN05221610
RY34				
RY35				
}		4822 051 30472	4.7kΩ ±5% 1/16W	NN05472610
RY38				
			PY26-SEMICONDUCTORS	
DY21				
}		4822 130 80326	L.E.D LT3D8B RED	HI10062320
DY24				
QY01		4822 209 90244	IC μPD16311GC-AB6	HC10283060
QY02		4822 130 61311	CHIP TRS. 2SA1162 O Y	HX111622A0
QY03		4822 130 61311	CHIP TRS. 2SA1162 O Y	HX111622A0
QY04		4822 130 61355	CHIP TRS. 2SC2712 O Y	HX327122A0
QY07				
}		4822 130 61311	CHIP TRS. 2SA1162 O Y	HX111622A0
QY10				
			PY26-MISCELLANEOUS	
LY01		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
LY02		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
LY03		4822 158 60654	CHIP INDUCTOR BLM31A02	FC90030070
SY07				
}		4822 276 13537	PUSH SW. SKHVB 260GF RED NSSH	SP01012030
SY09				
VY01		4822 130 90441	DISPLAY UNIT FLT FUTABA 6-BT-97ZK	HQ30801410
ZY01		4822 209 16735	PHOTO UNIT PNA4655M00HB IR SENSOR	HW10006020